

Heterogeneous Distributed Environment

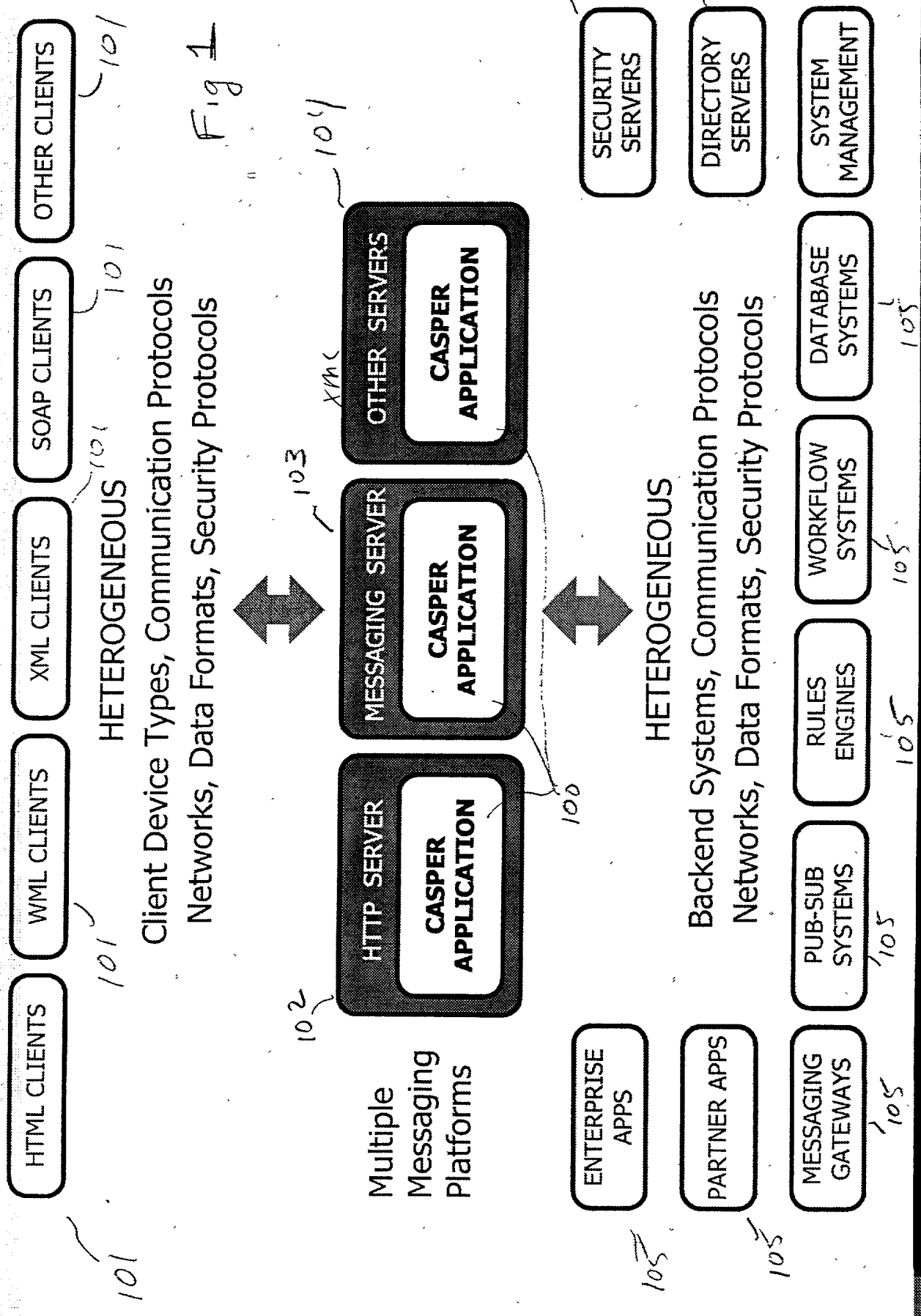
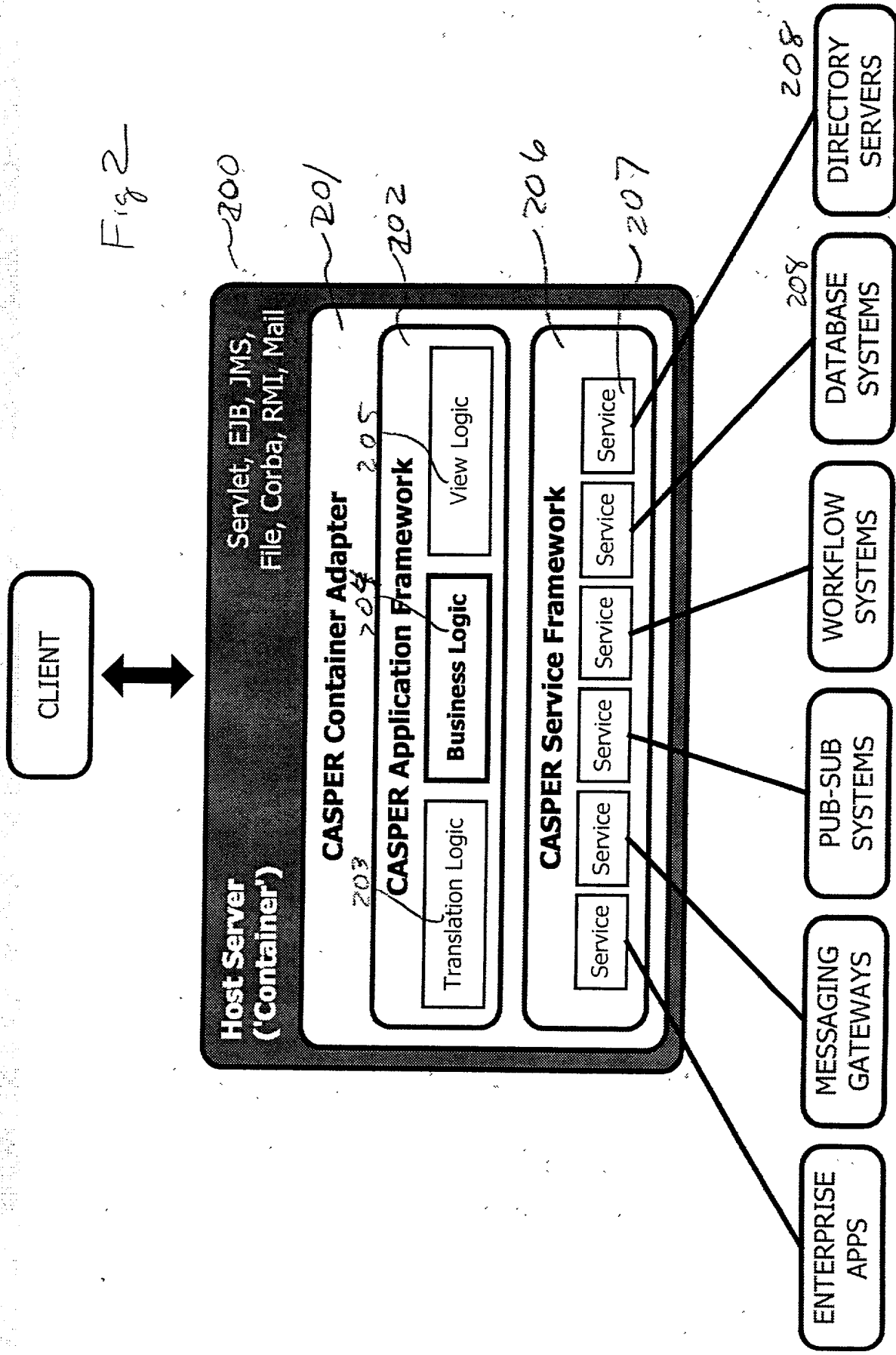
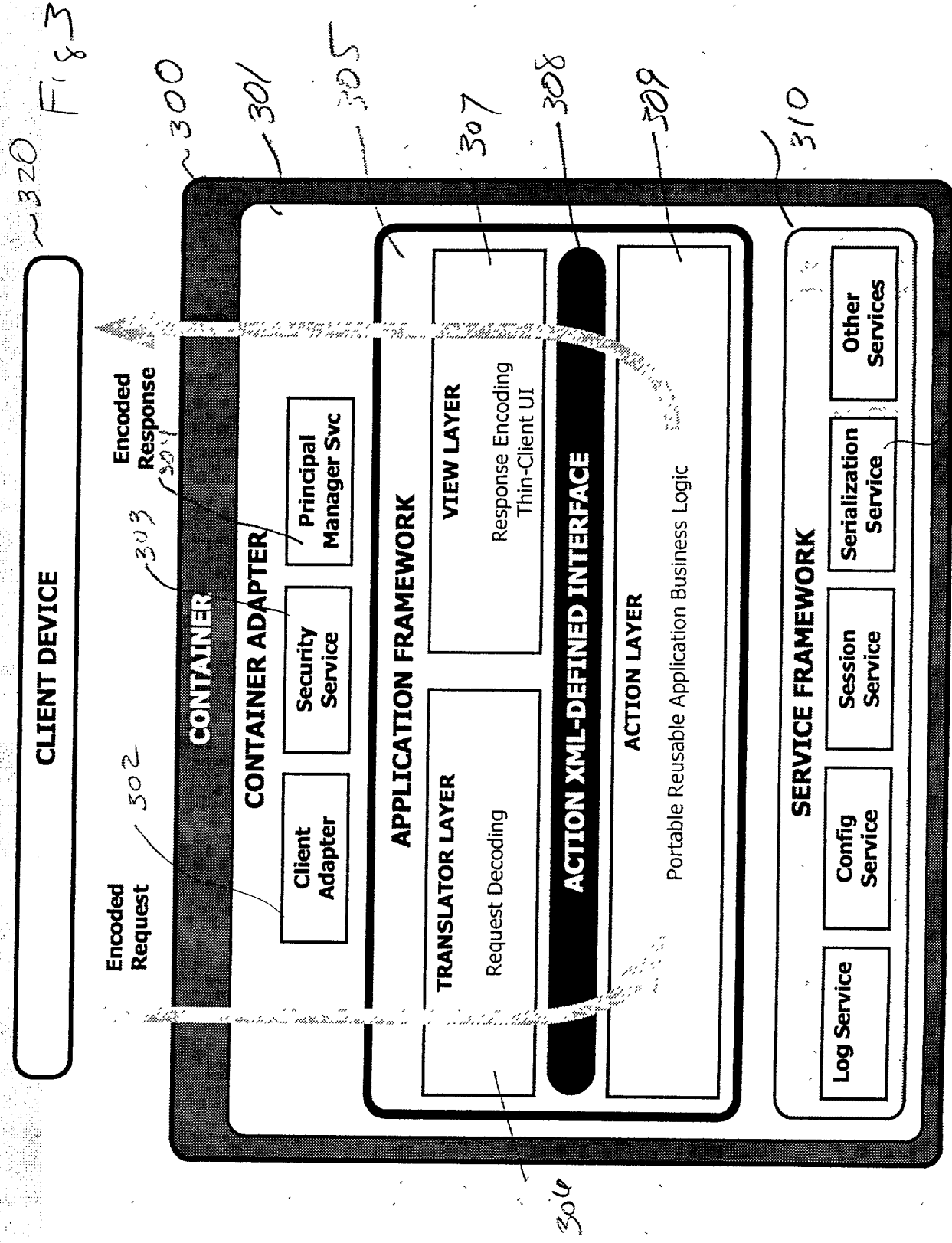


Fig 1

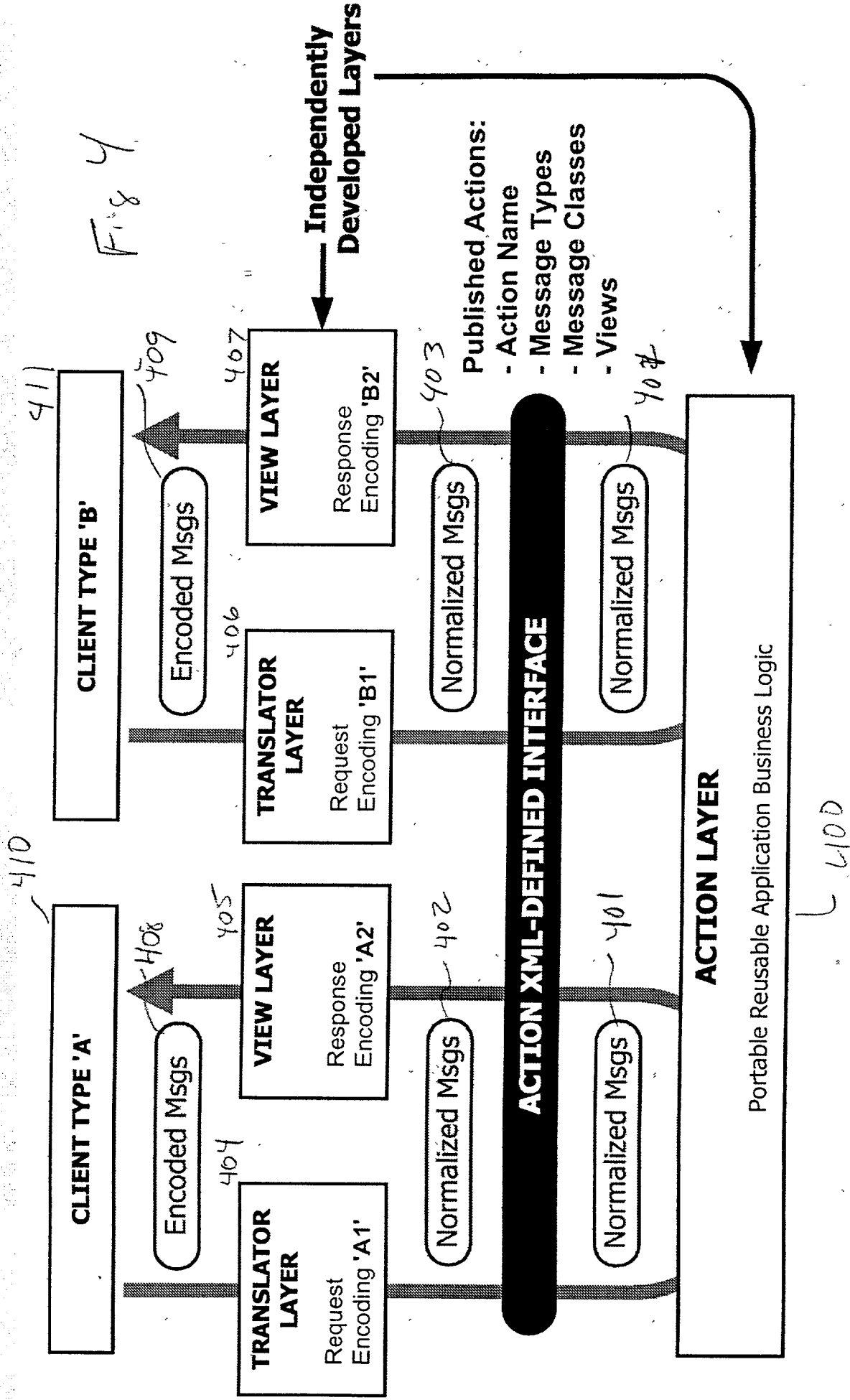
Container and Framework Overview



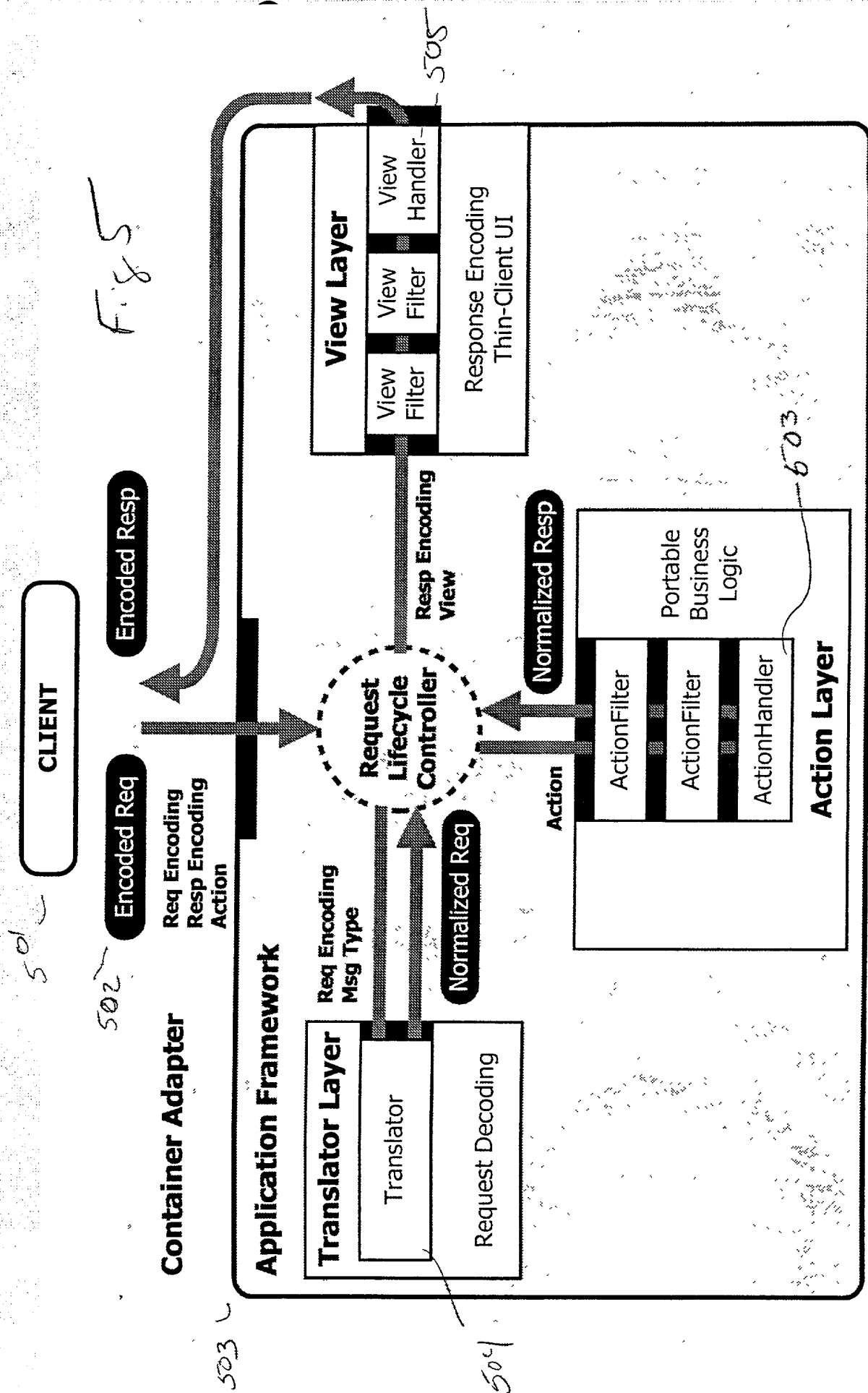
Application Framework Overview



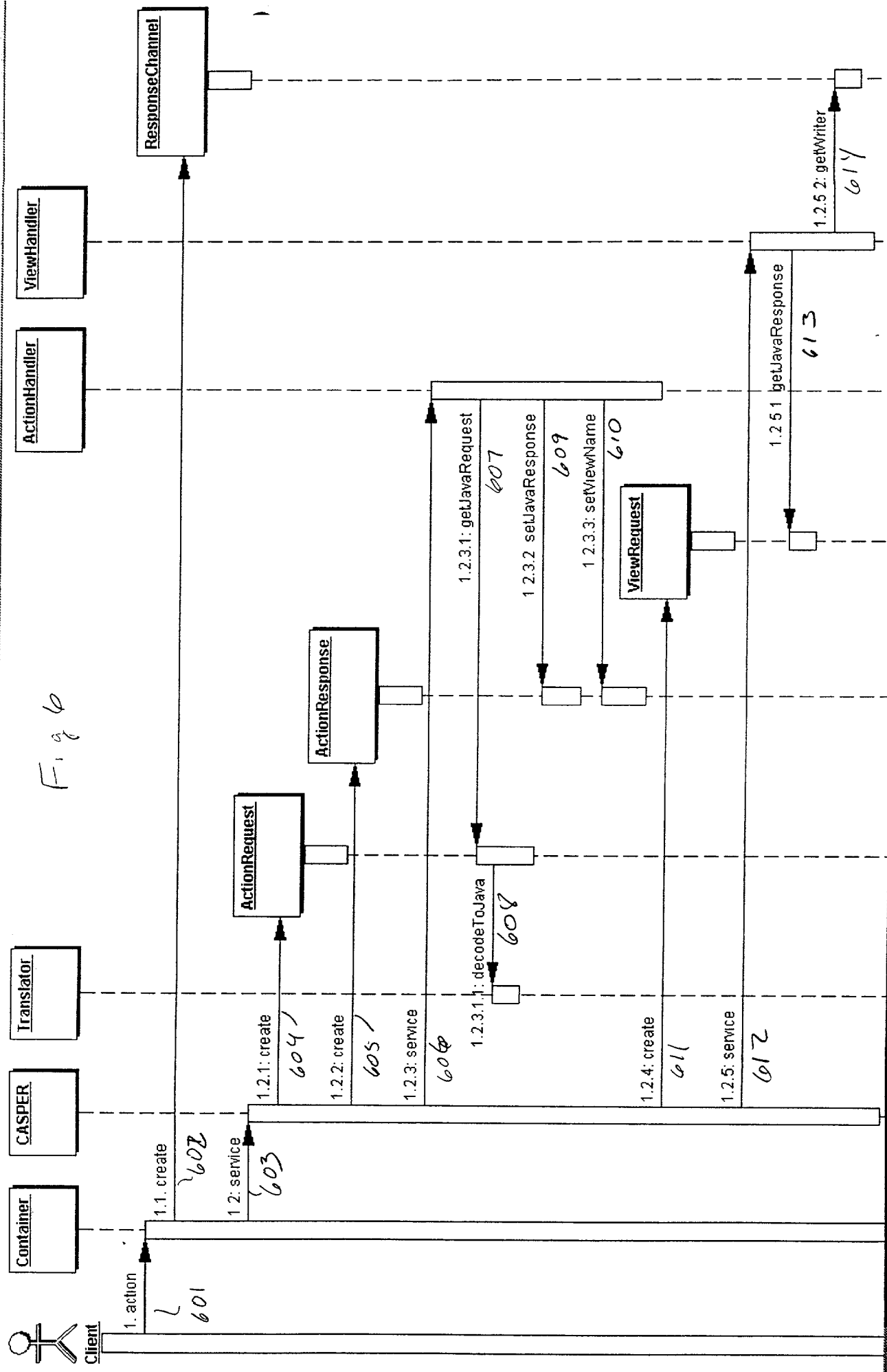
Published XML-Defined Action Interface



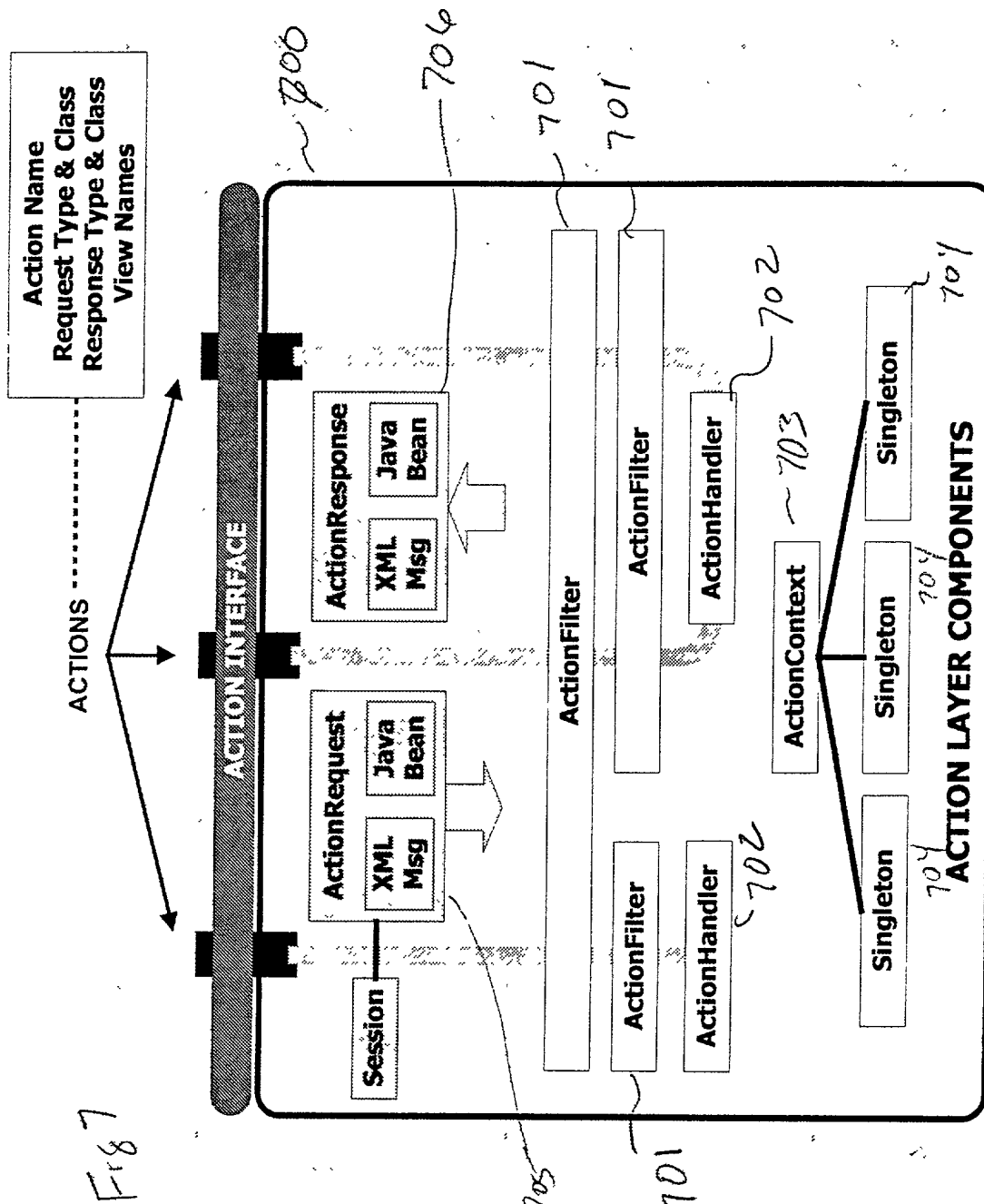
Application Request Lifecycle Overview



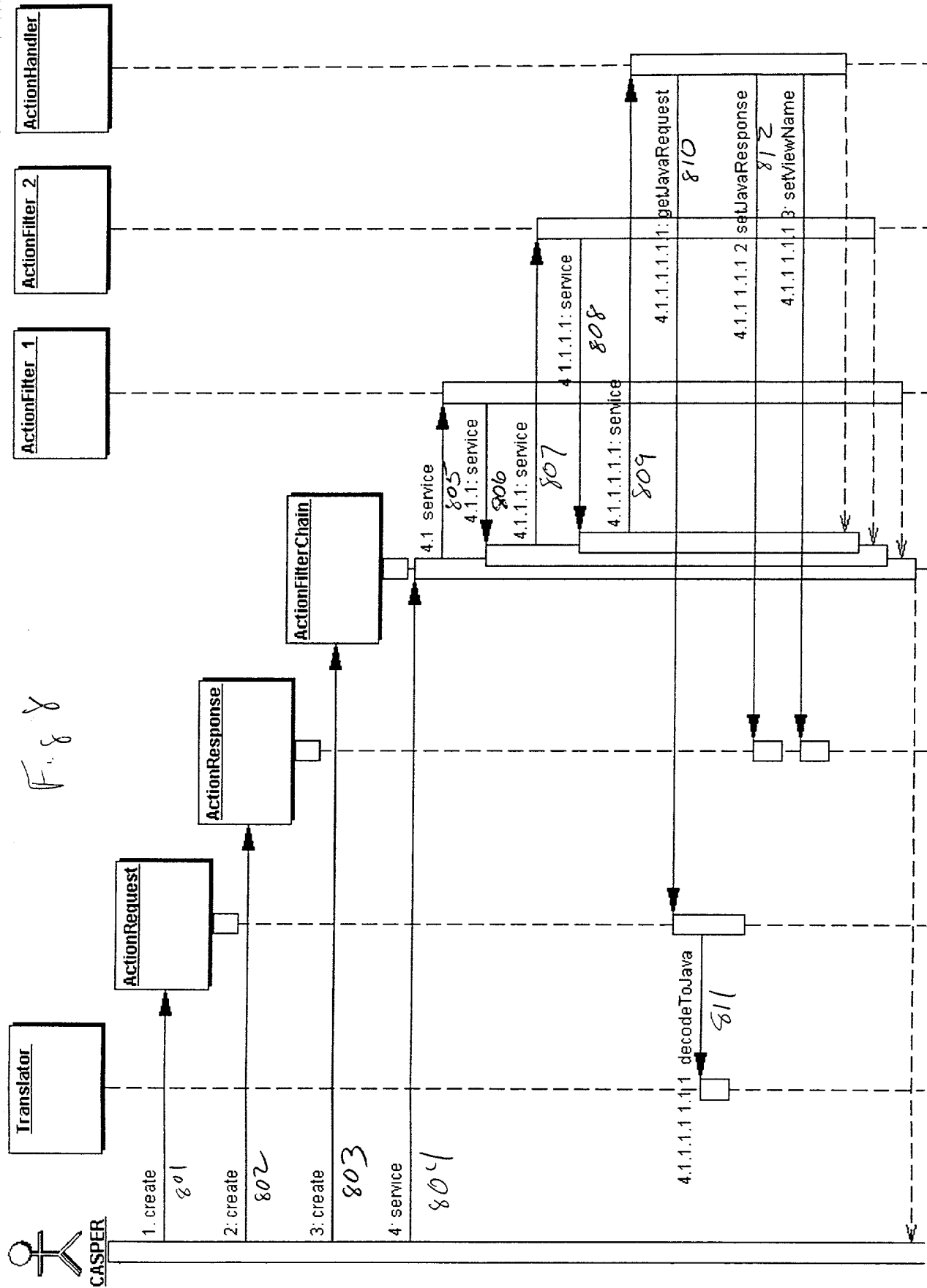
Application Request Sequence Overview



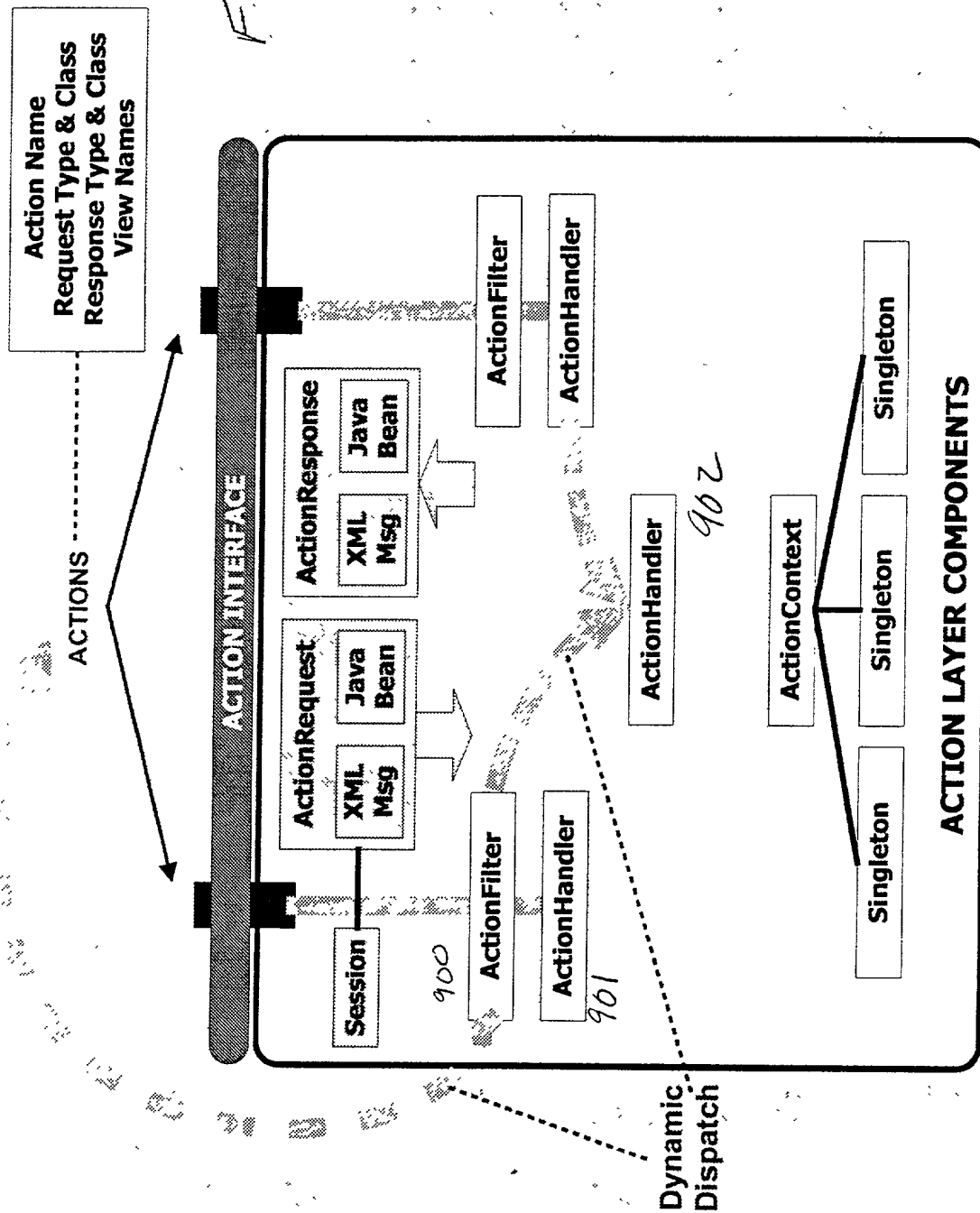
Action Layer Components



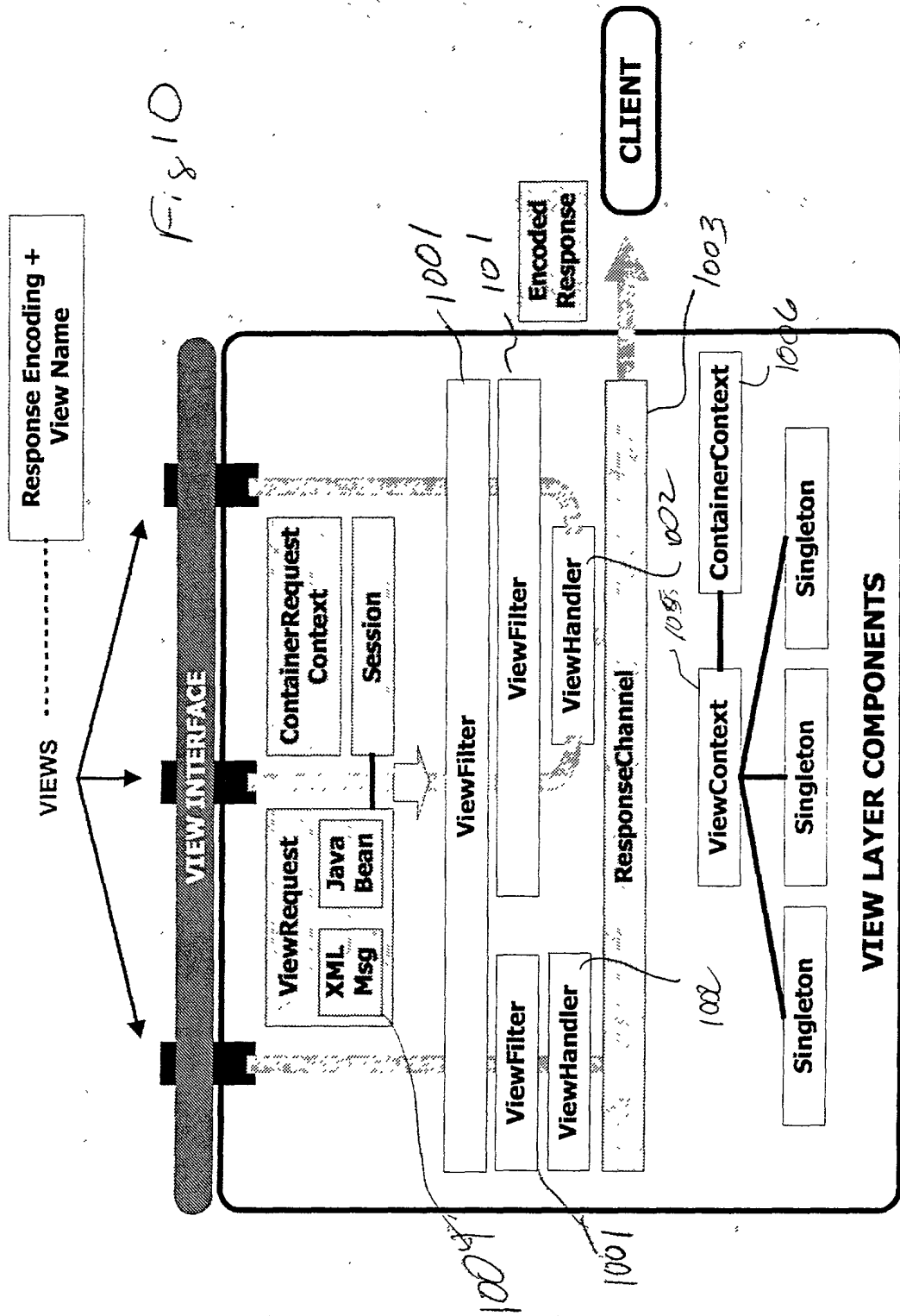
Action Layer Request Sequence Overview



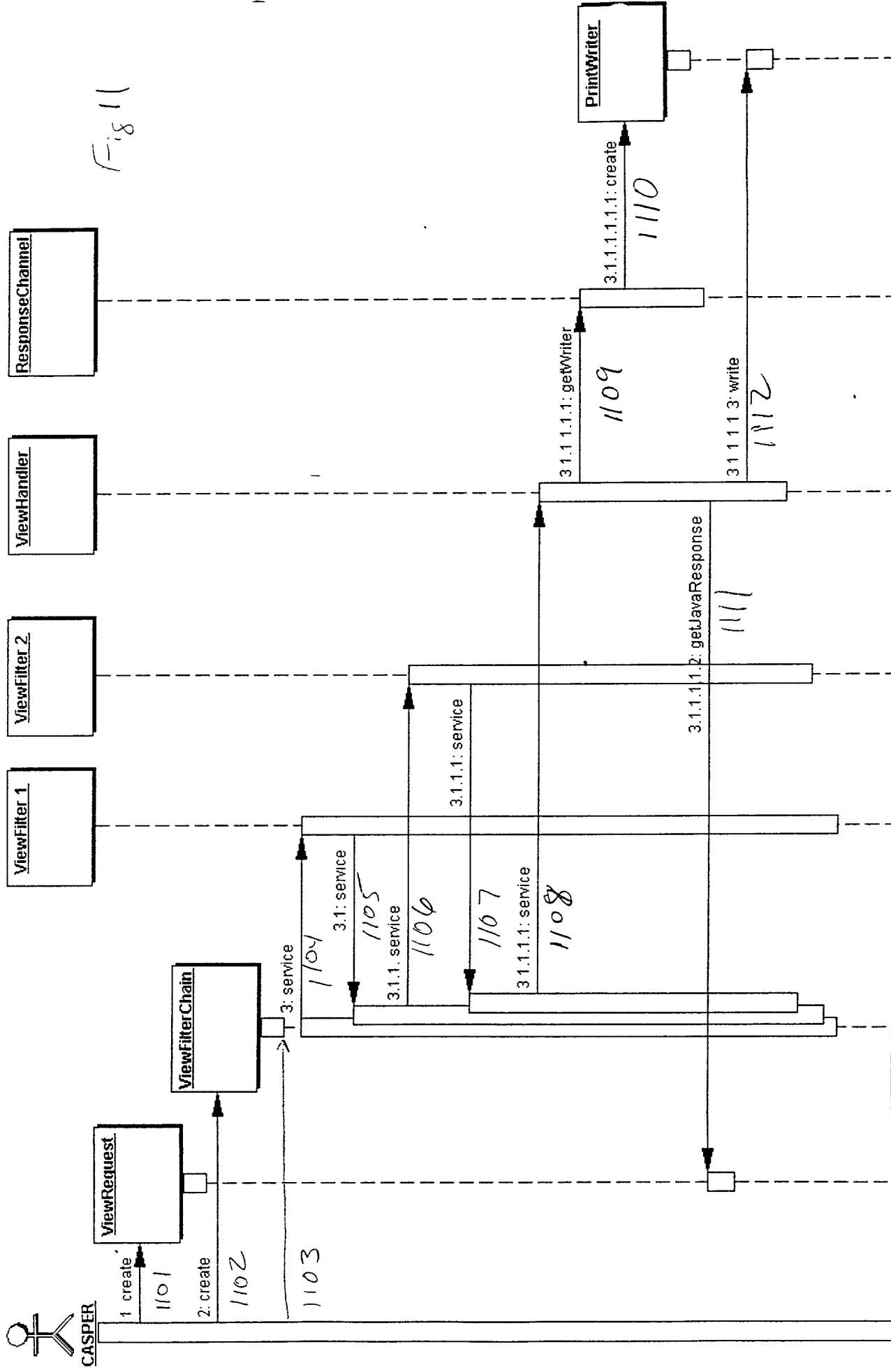
Action Layer Dynamic Dispatch



View Layer Components

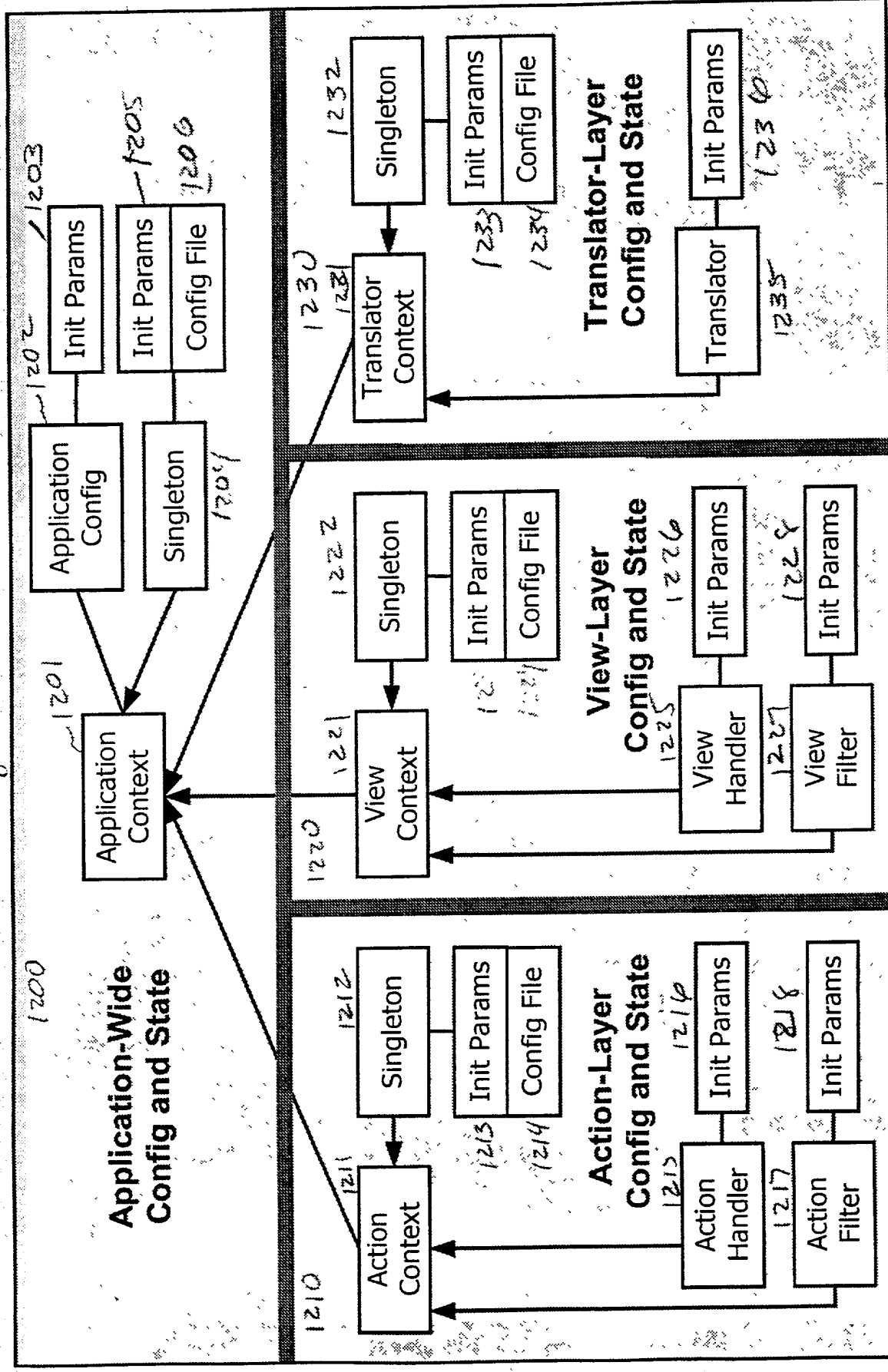


View Layer Request Sequence Overview



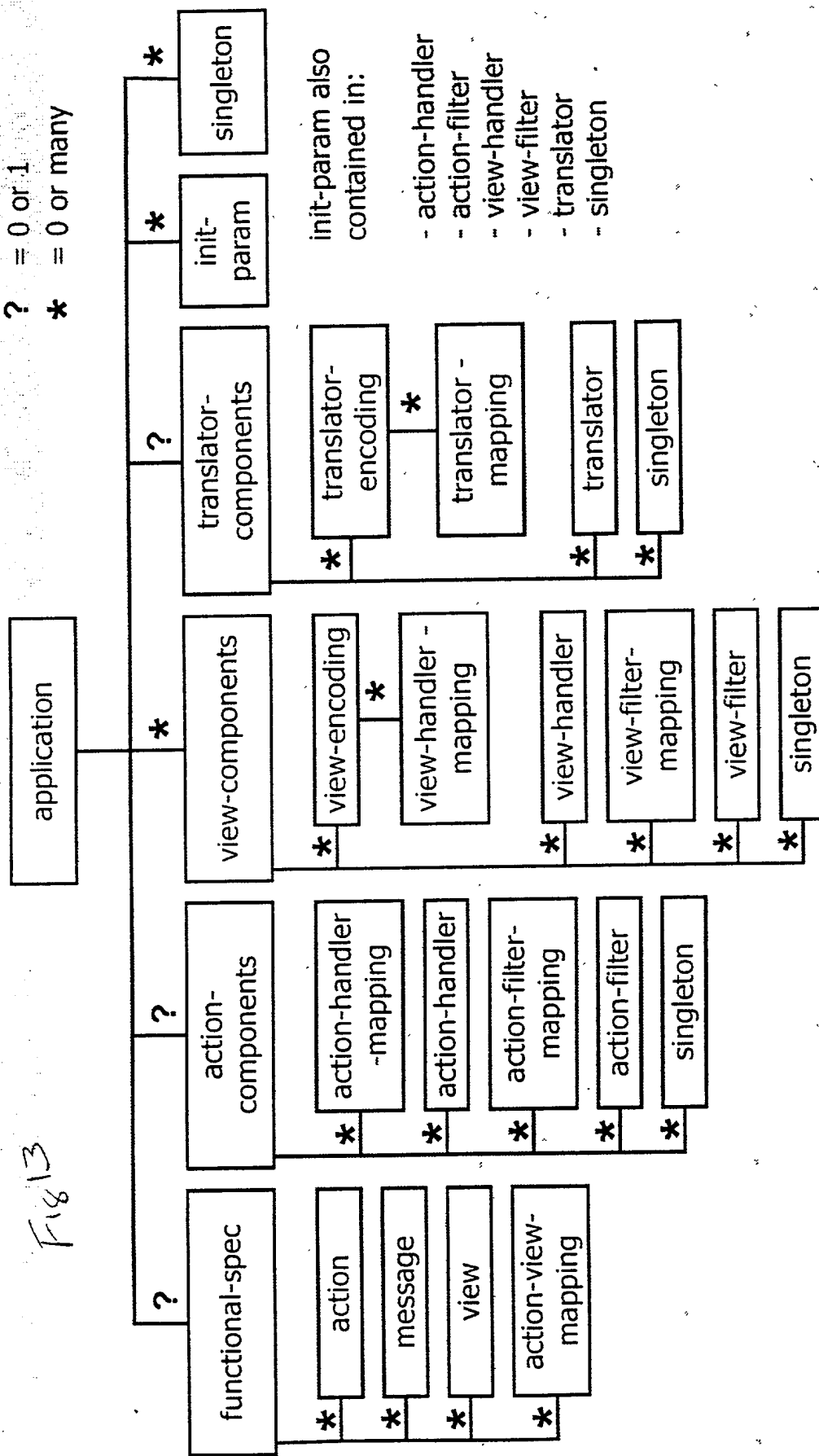
Configuration And State Architecture

Fig 12



casper-application.xml structure

? = 0 or 1
* = 0 or many



```

<!DOCTYPE application
PUBLIC "-//GE CASPER//DTD config casper-application-1.0//EN"
"http://casper.ge.com/dtd/config/casper-application-1.0.dtd">
  
```

Action Table

1401

Action	application request format	application response format	Dispatcher
get product	get-product req	product-description resp	

1402

filter
...
Action Handler

Fig 14

1502

1501

Translator Table

Translator

client request format	application request format	dispatcher
NV pair	any	

Fig 15

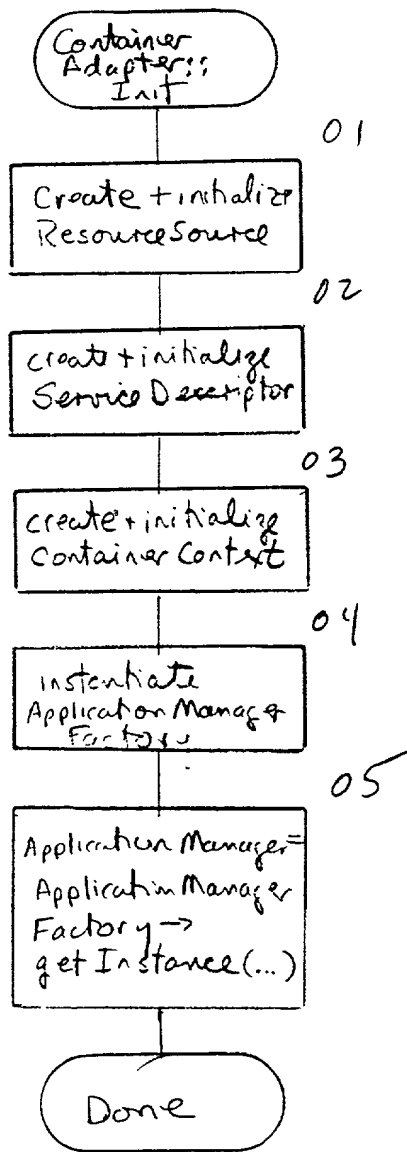
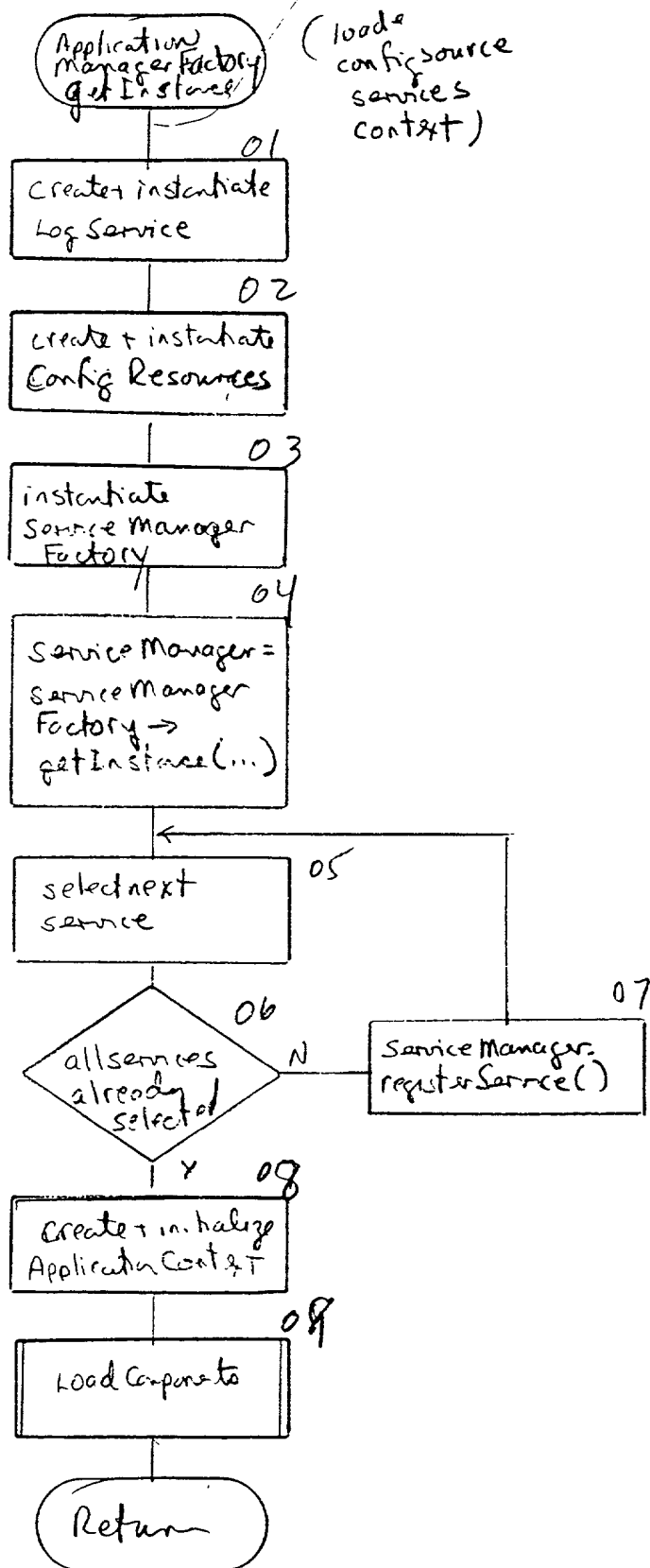


Fig 17



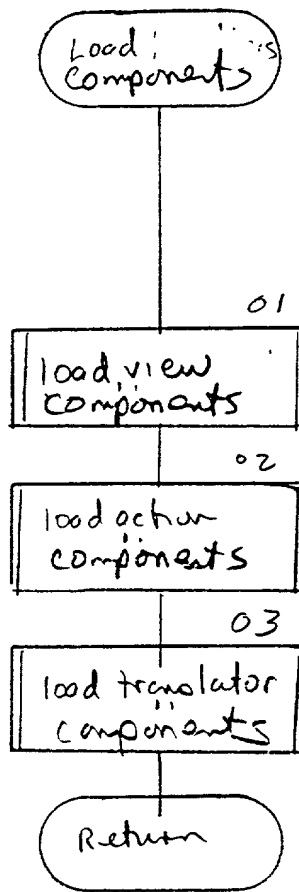


FIG. 19

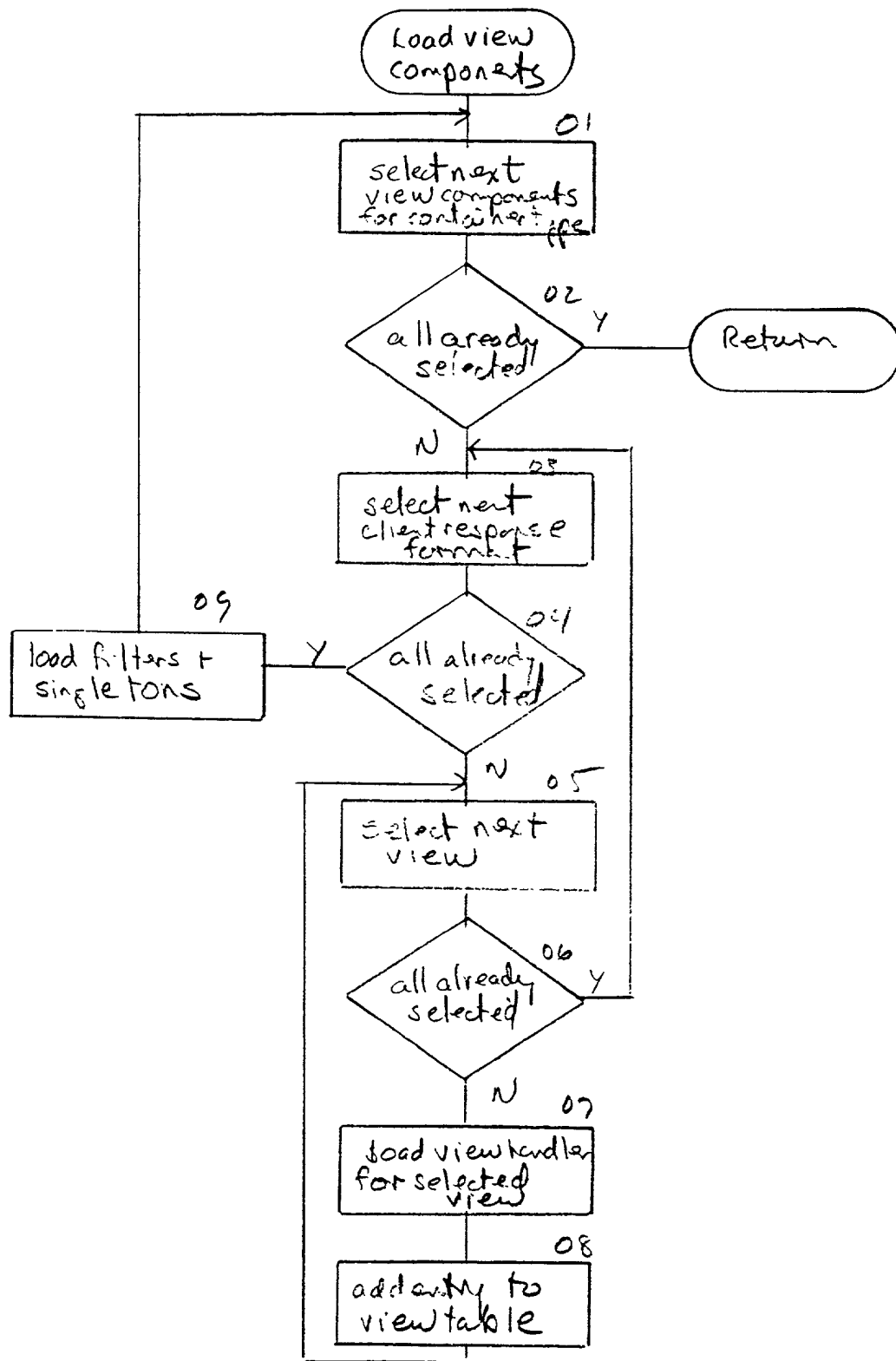


Fig. 20

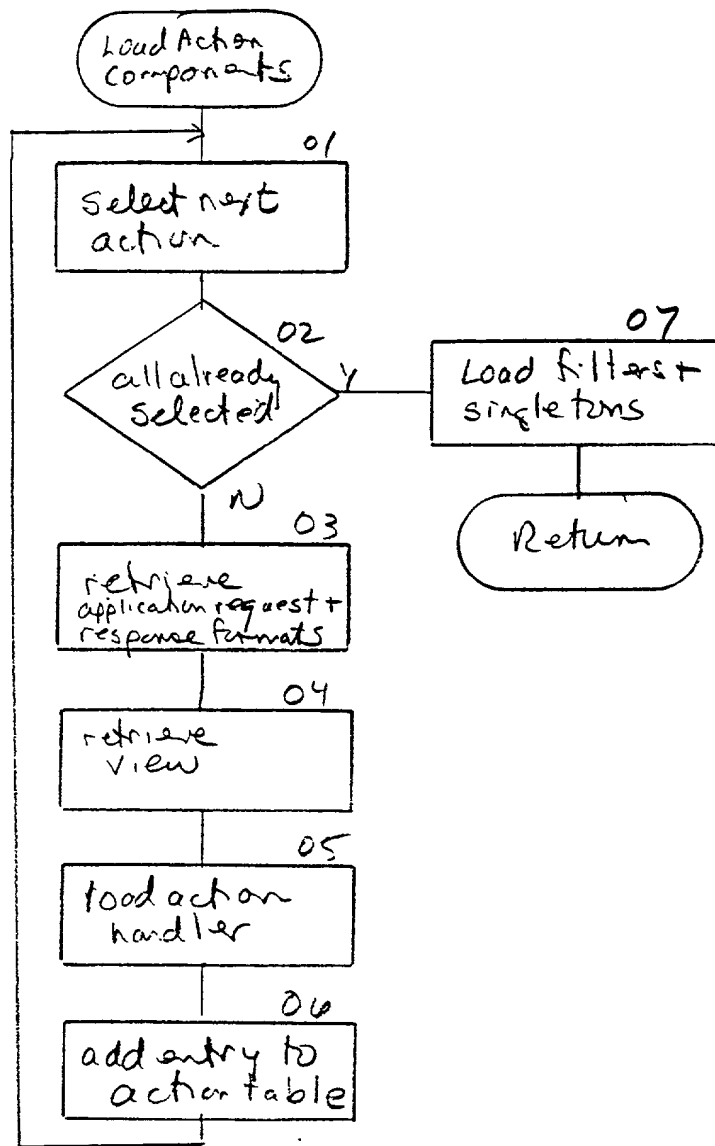


Fig. 21

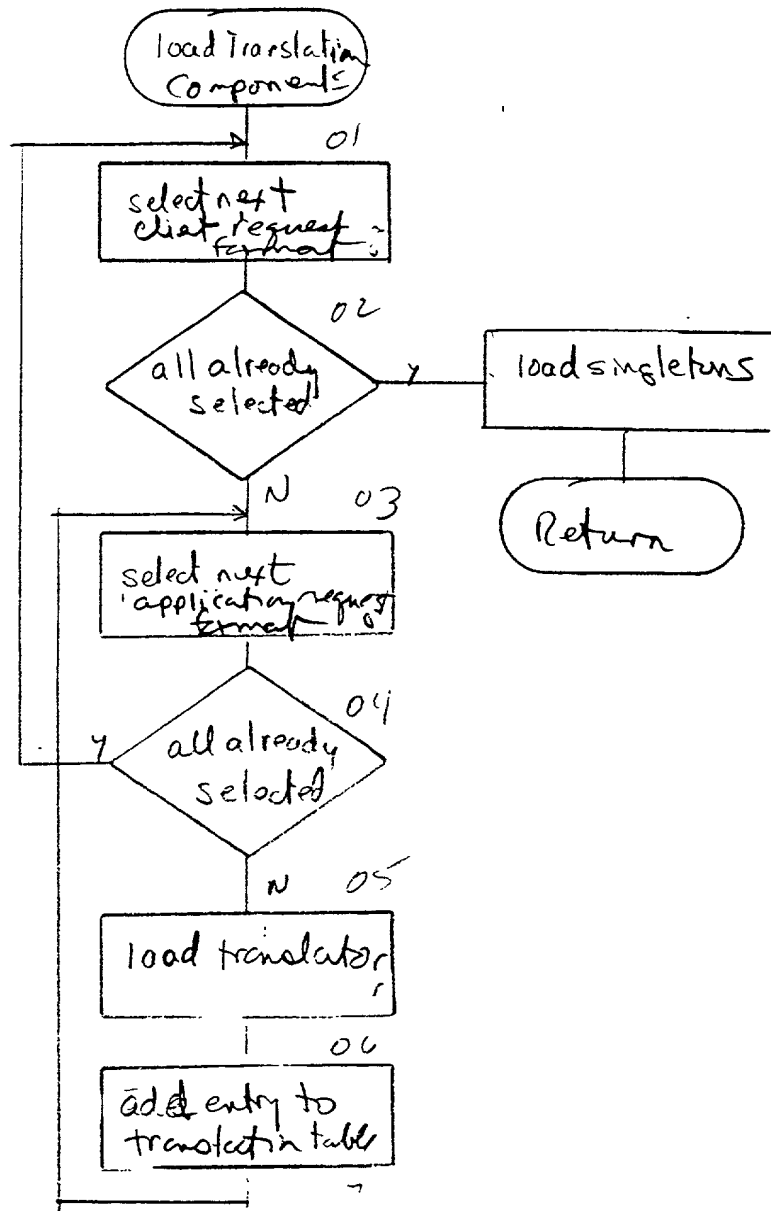


Fig 22

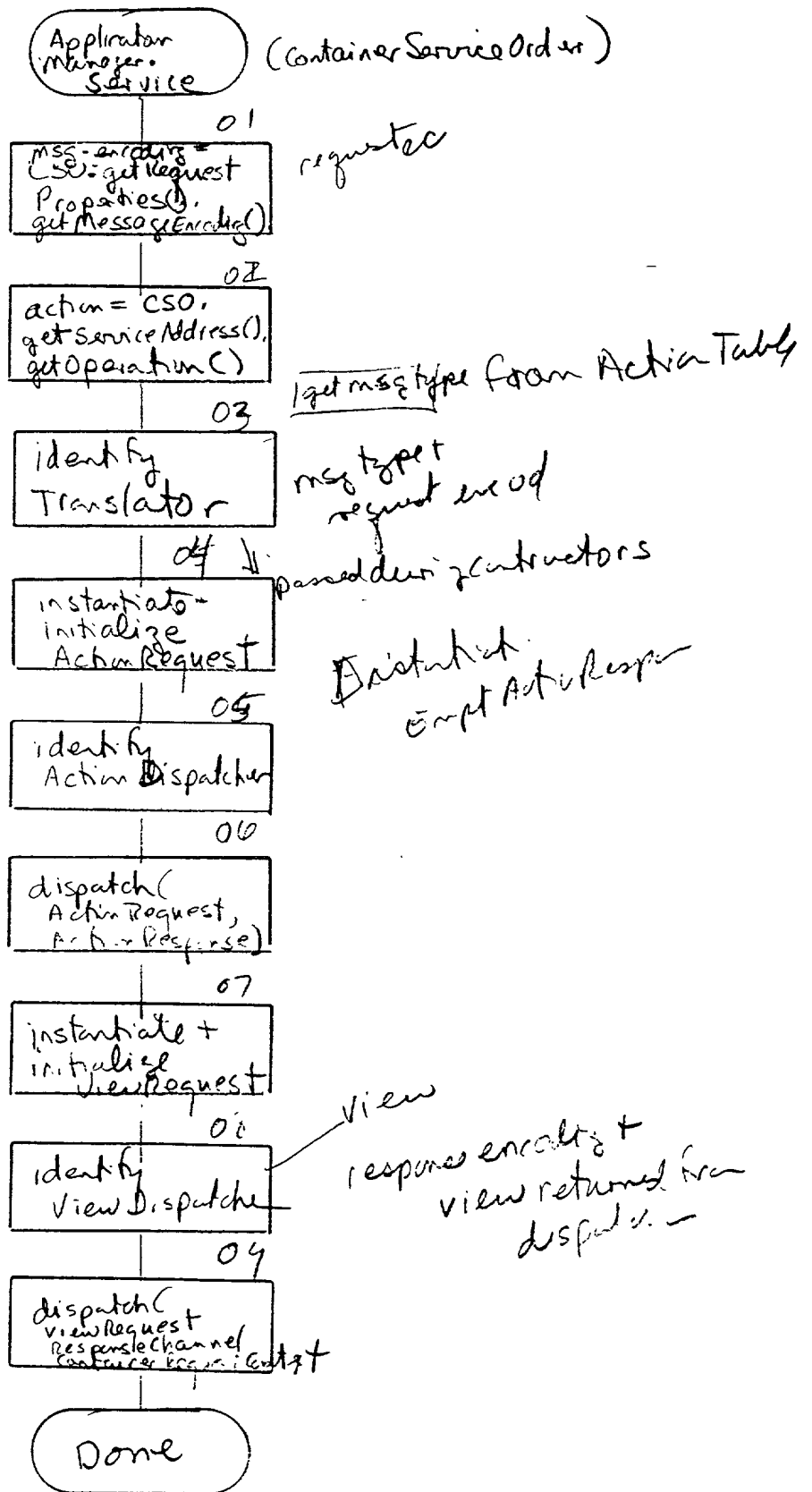


Fig. 23

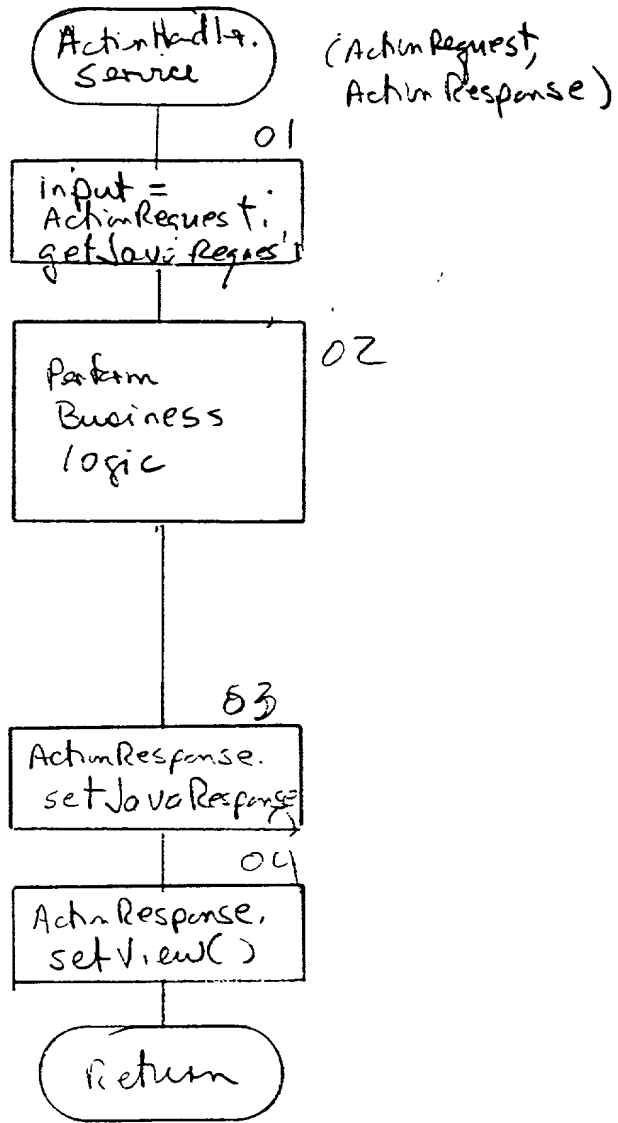


Fig. 24

Service Framework Overview

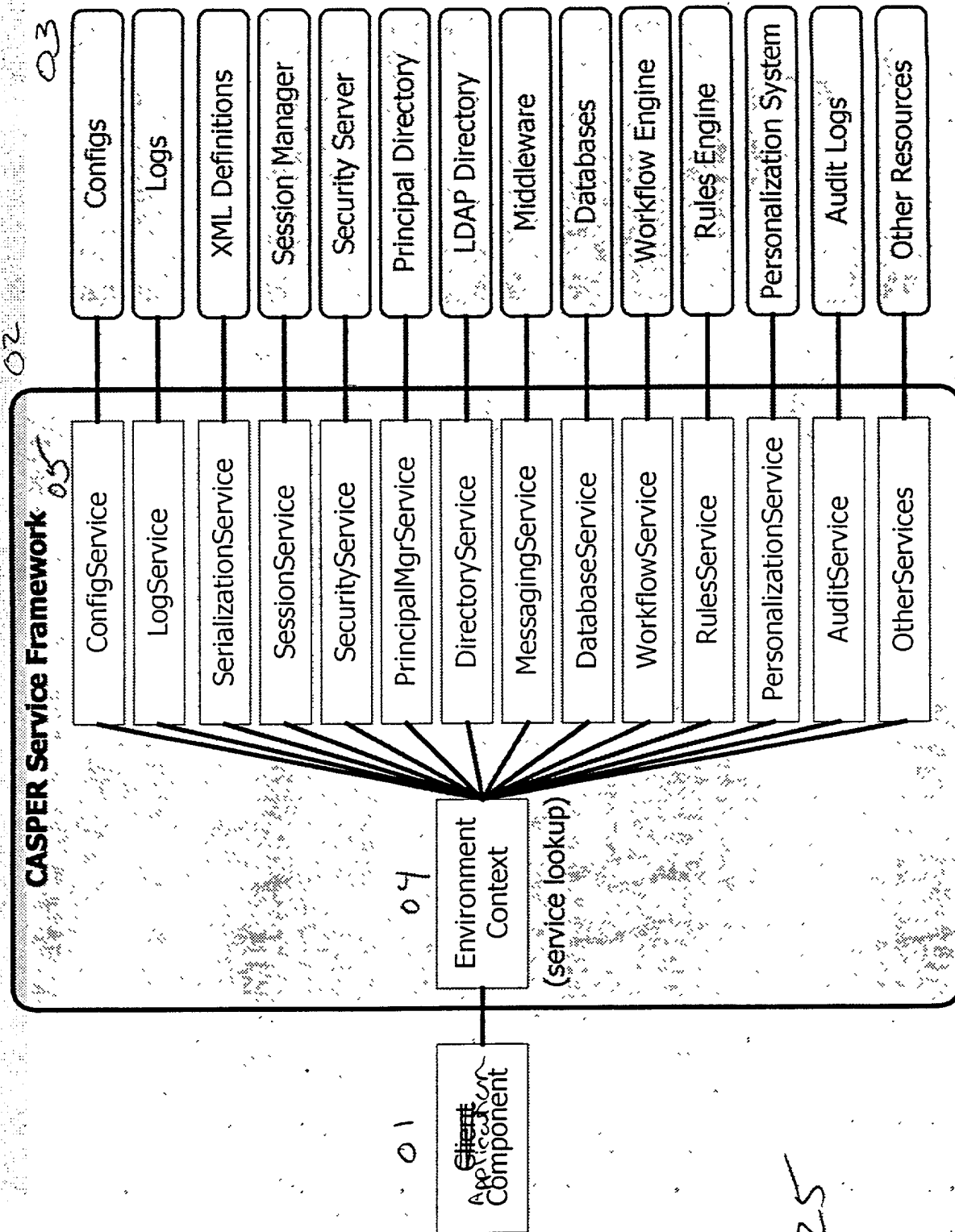
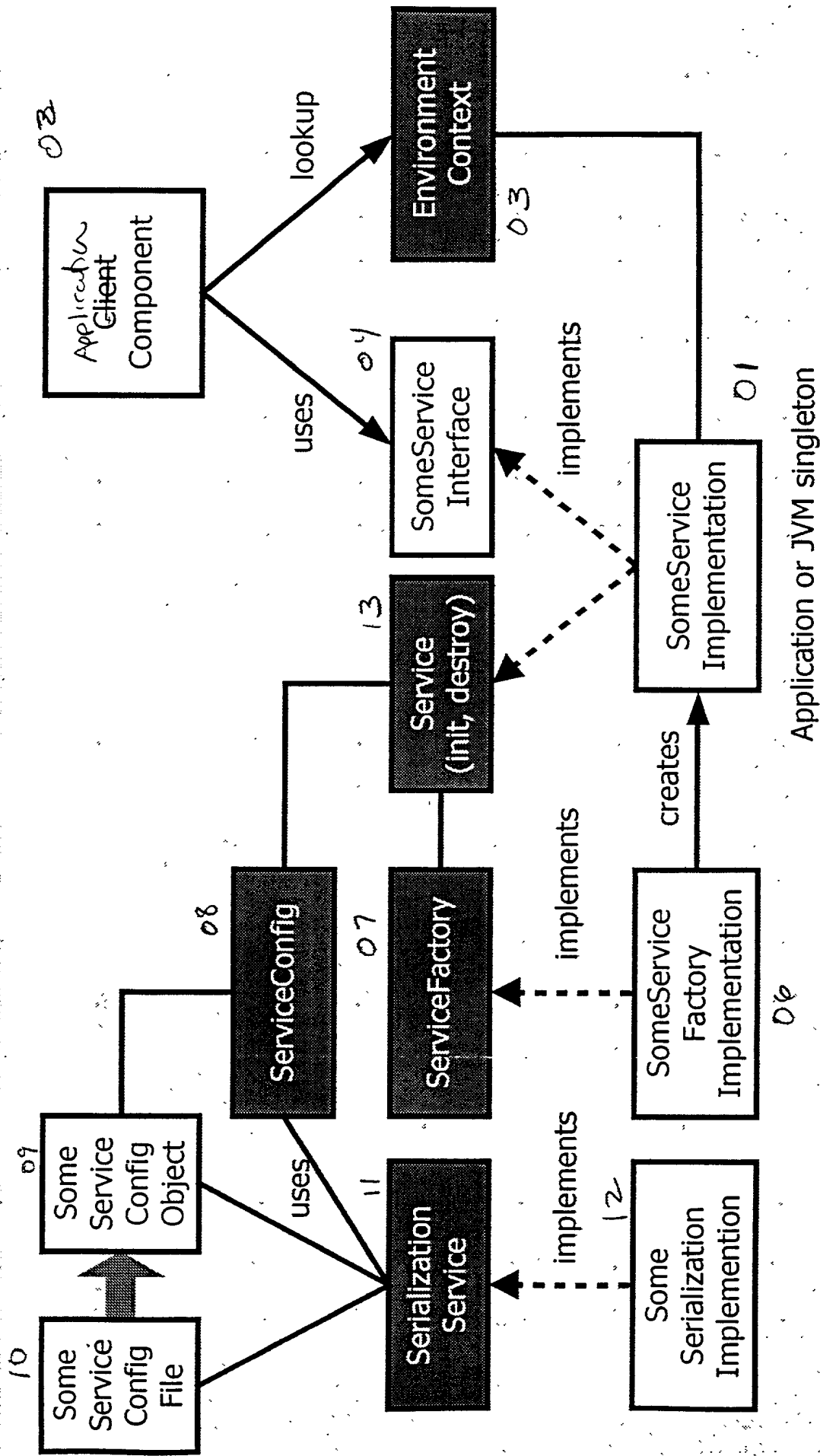


Fig 25

Service Classes & Interfaces



4824

Service Framework Configuration

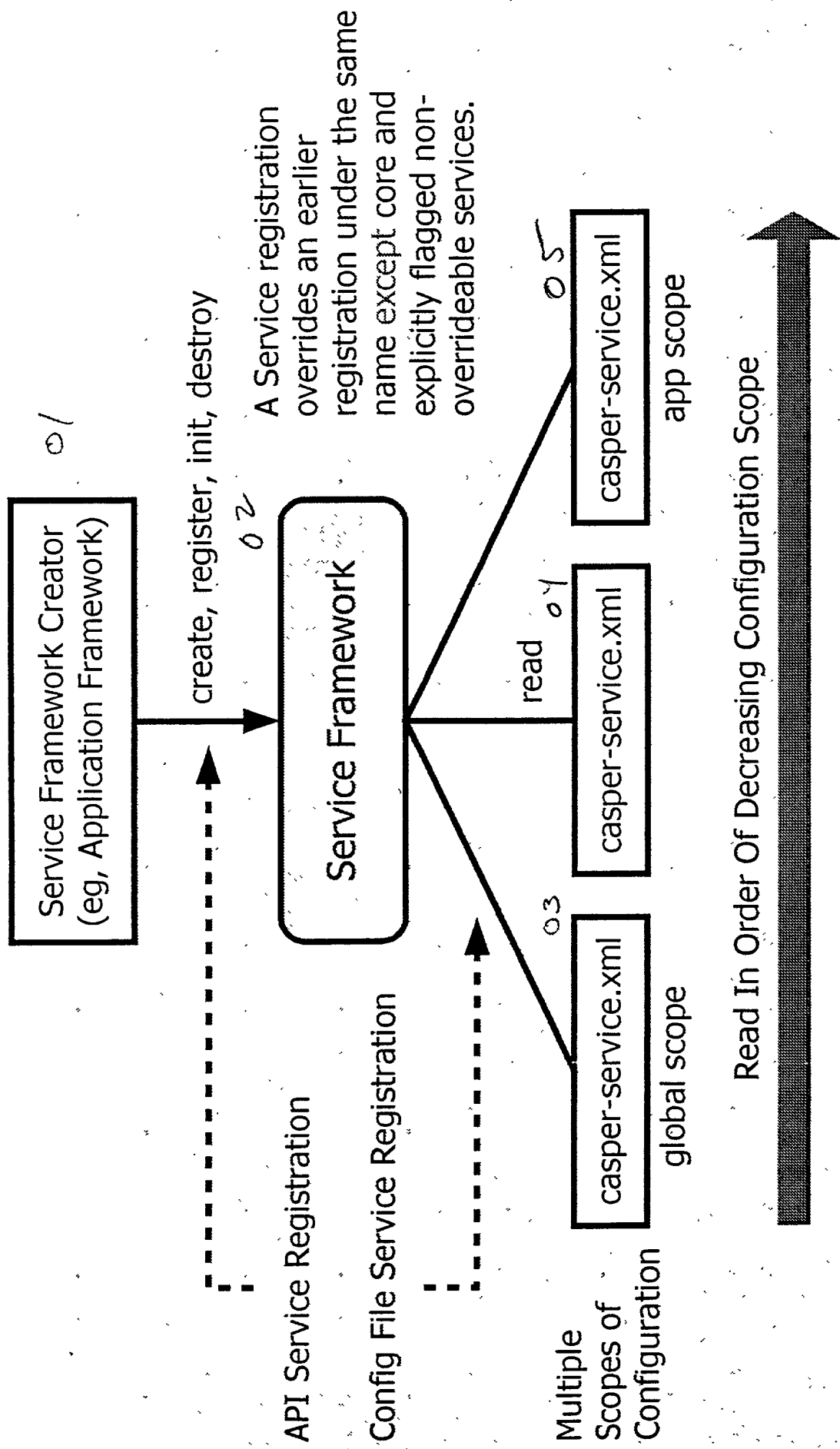
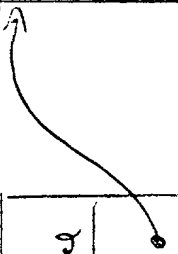


Fig 27

Service Table 01 02

Service name	Service Identifier
config	



A curved arrow points from the 'config' entry in the 'Service Identifier' column of the table to a rectangular box labeled 'config Service'.

Fig 28

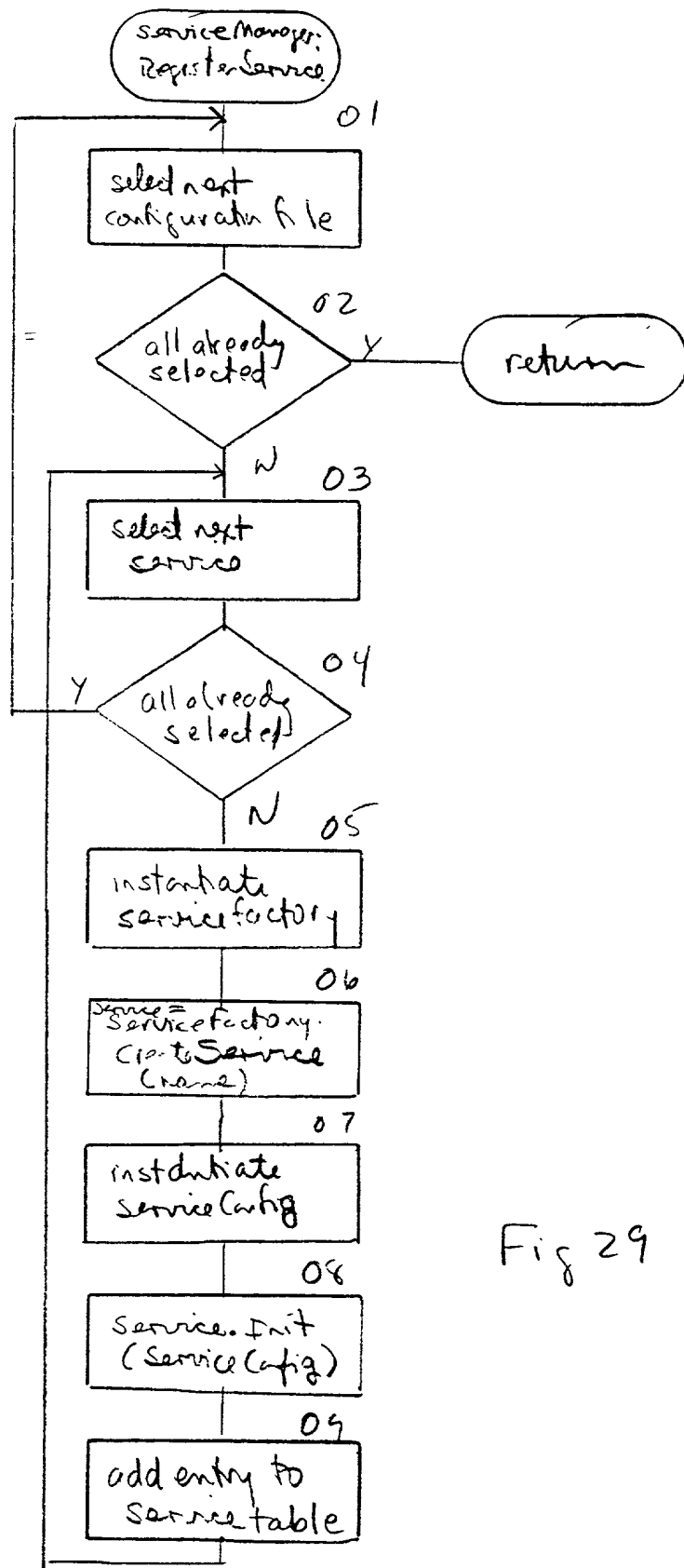


Fig 29

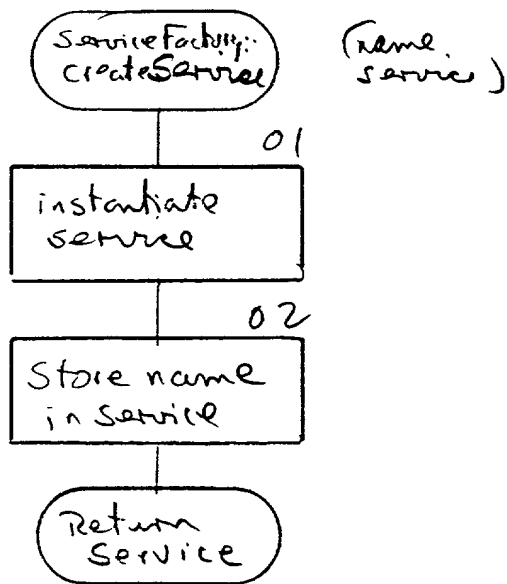


Fig 30

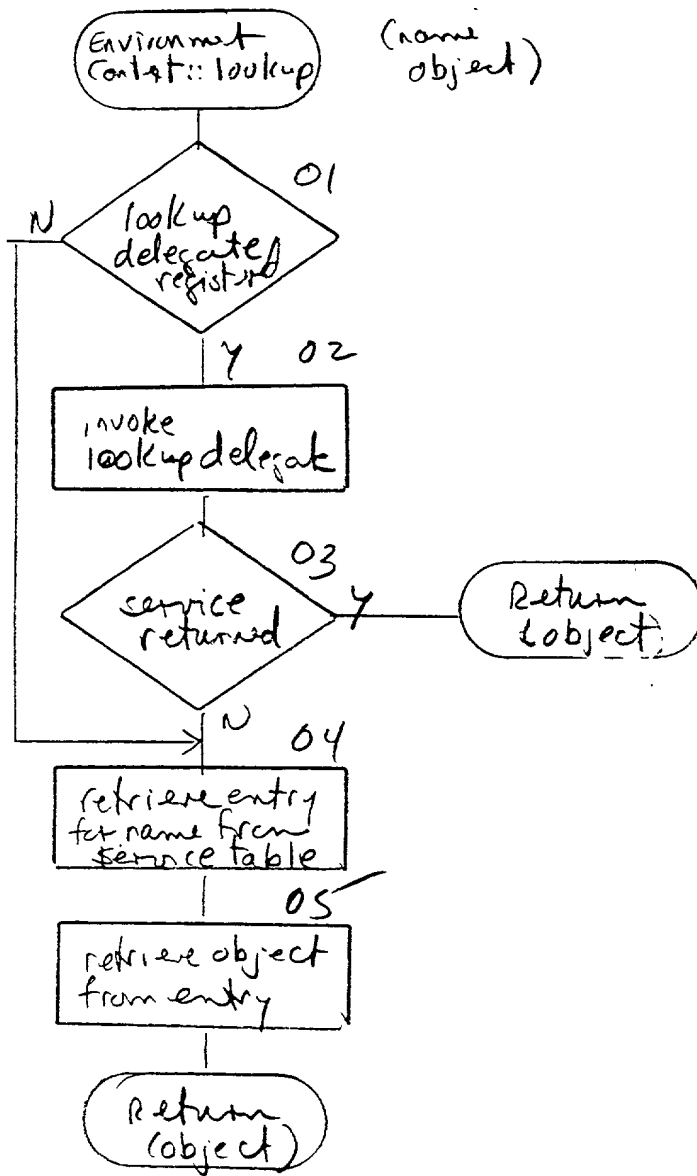
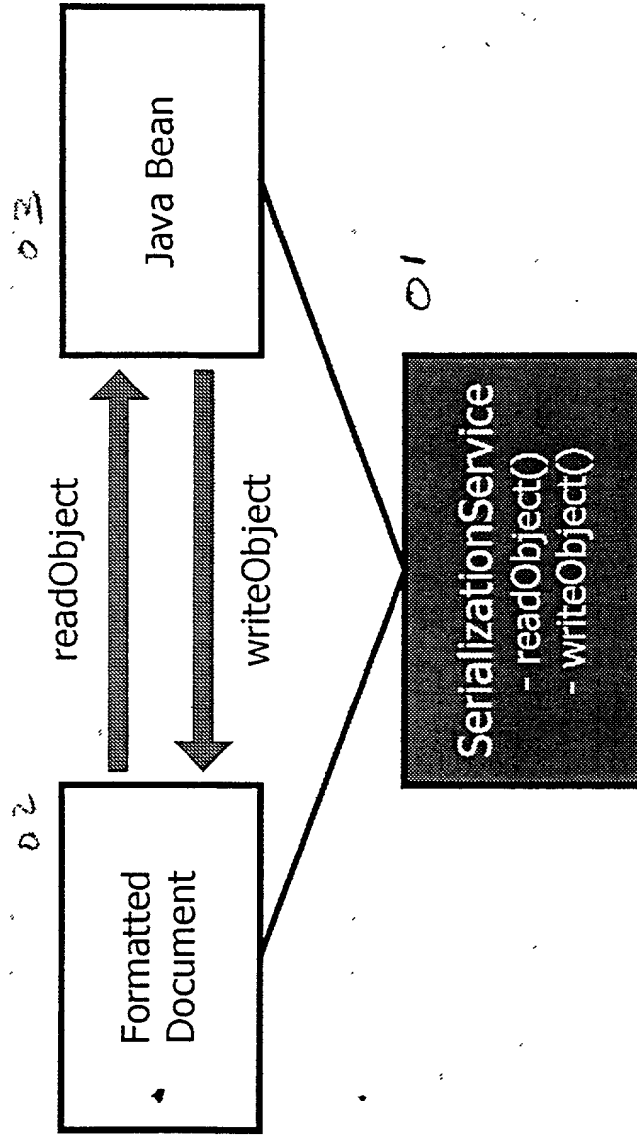


Fig 31

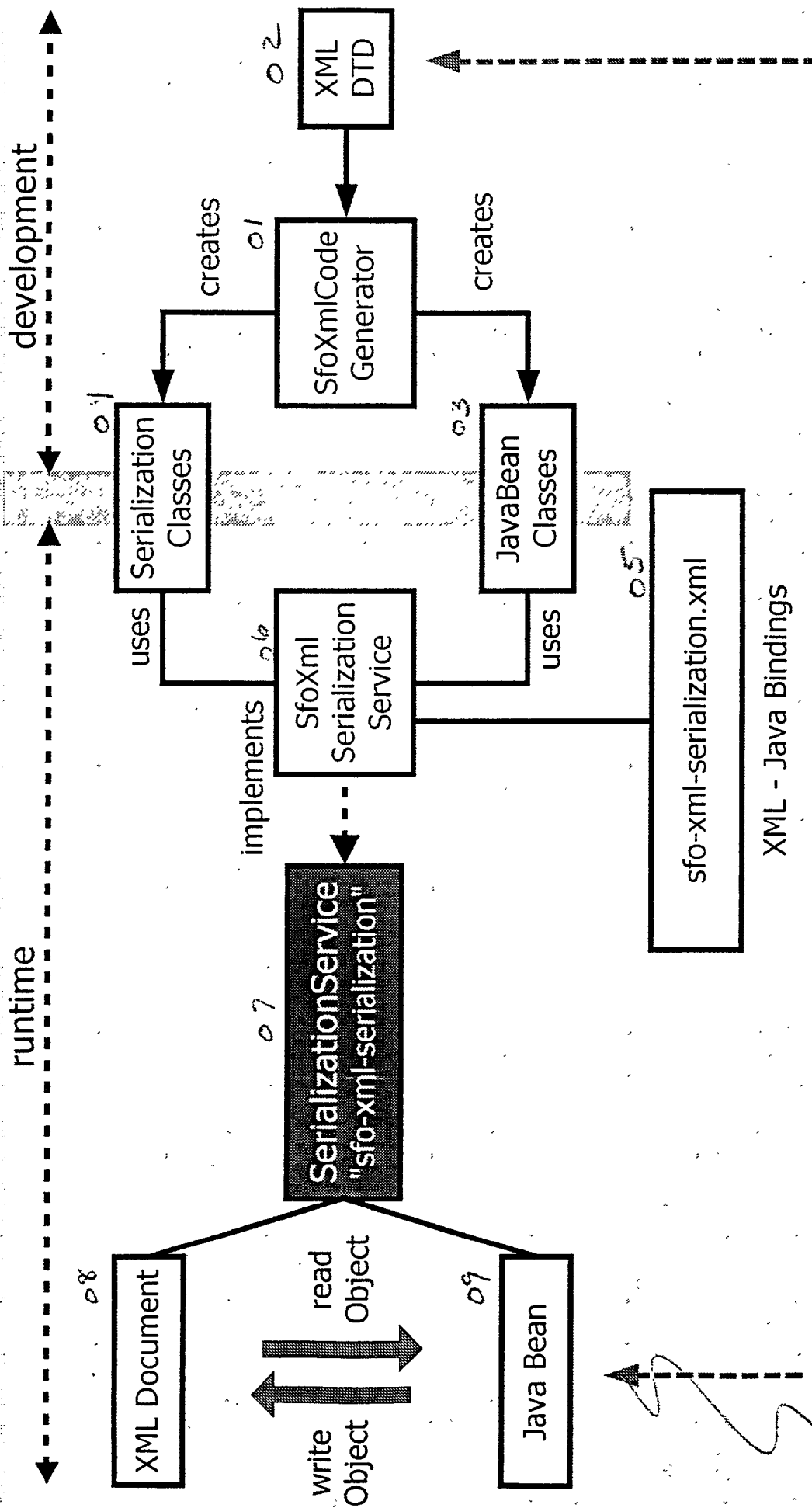
Serialization Service



A SerializationService is responsible for transforming and validating formatted documents to and from JavaBean objects

FIG. 32

Configuration Definition with SFO XML Tools



Configuration representations

Fig. 33

Configuration schema defined with XML DTDs

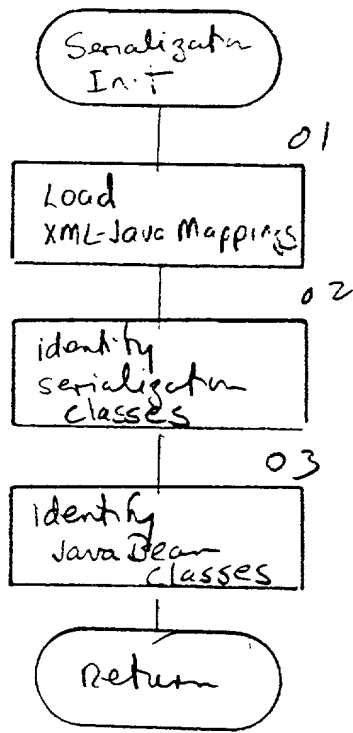
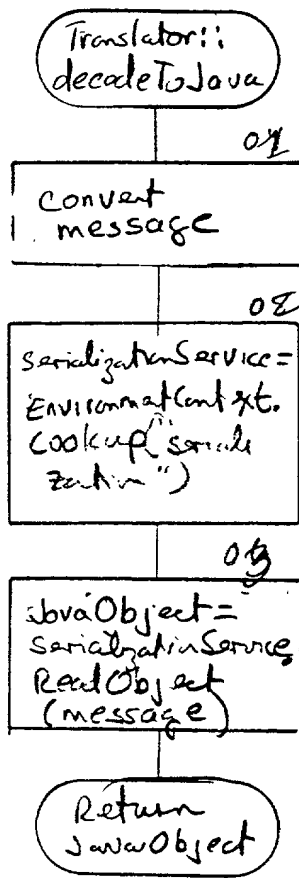


Fig. 34



(Client format
message
application format)

Fig. 35

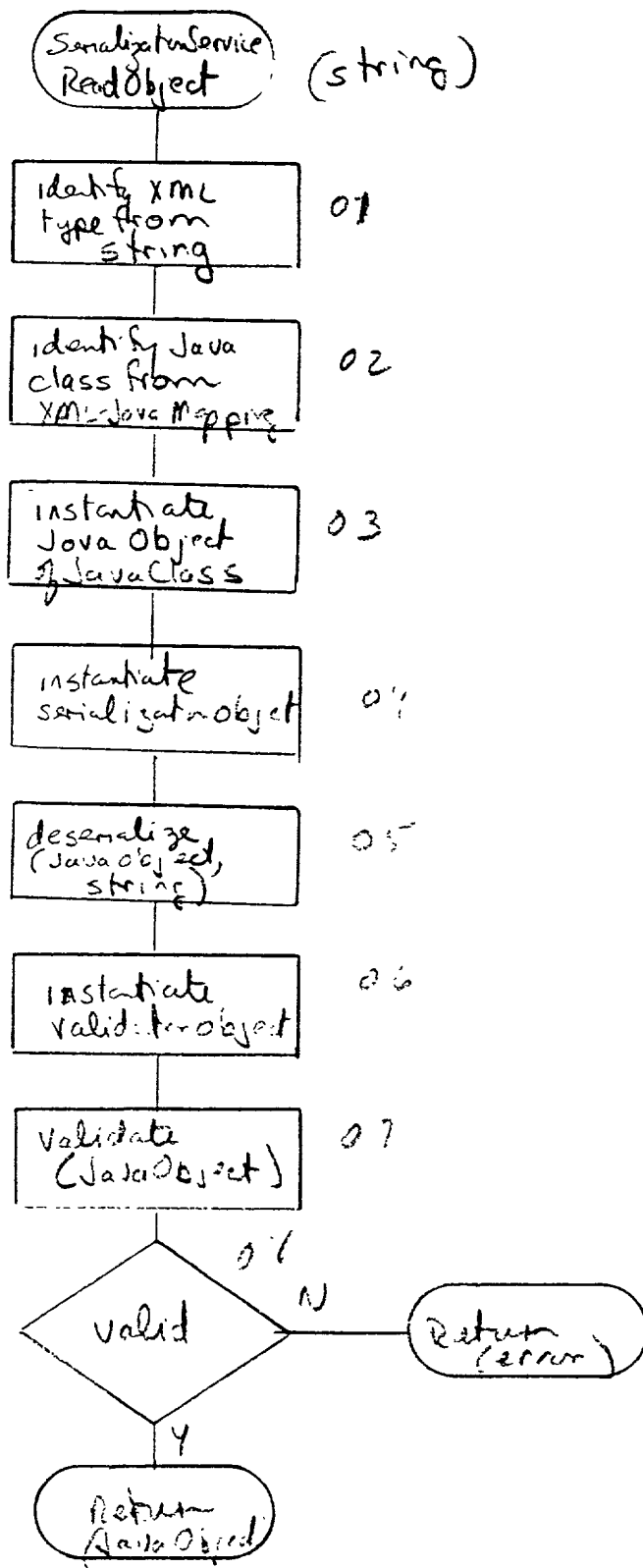


Fig. 36

Configuration Service

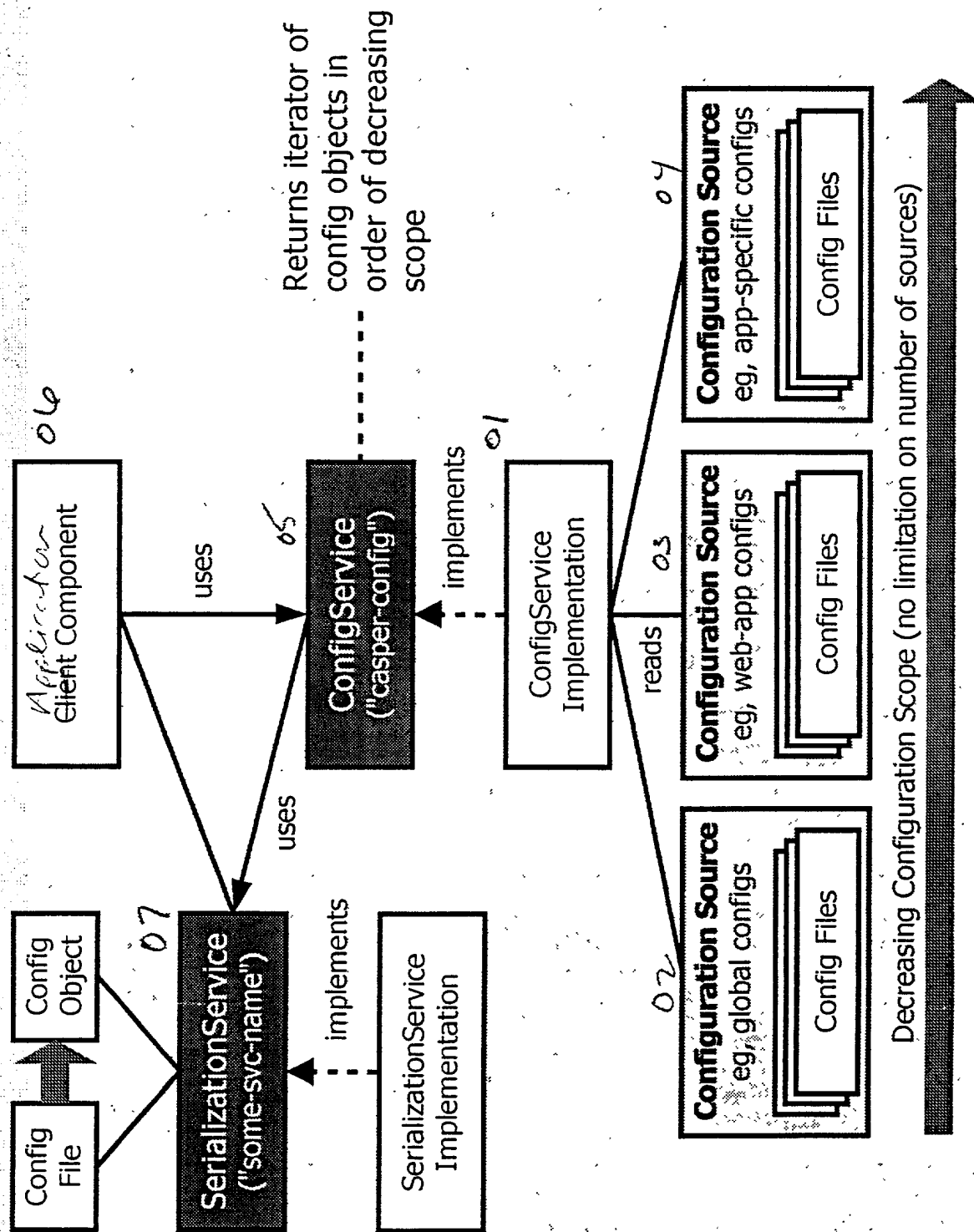


Fig. 37

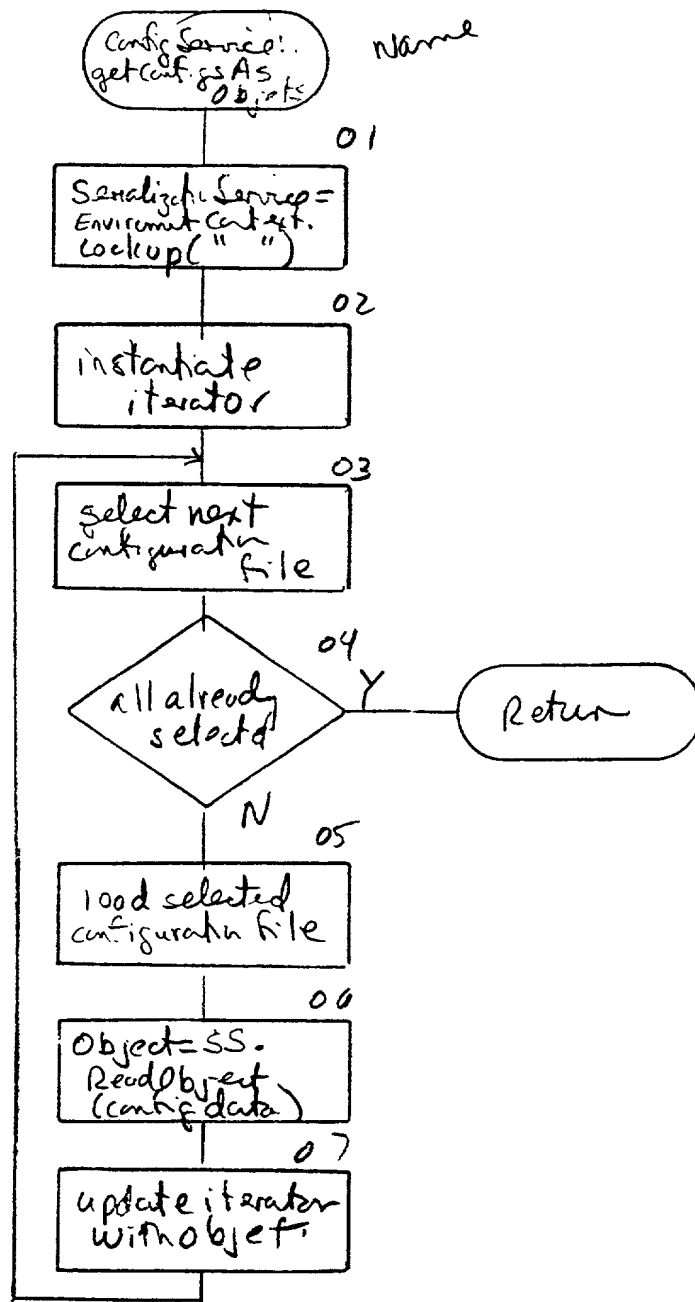


Fig. 38

Fig. 39

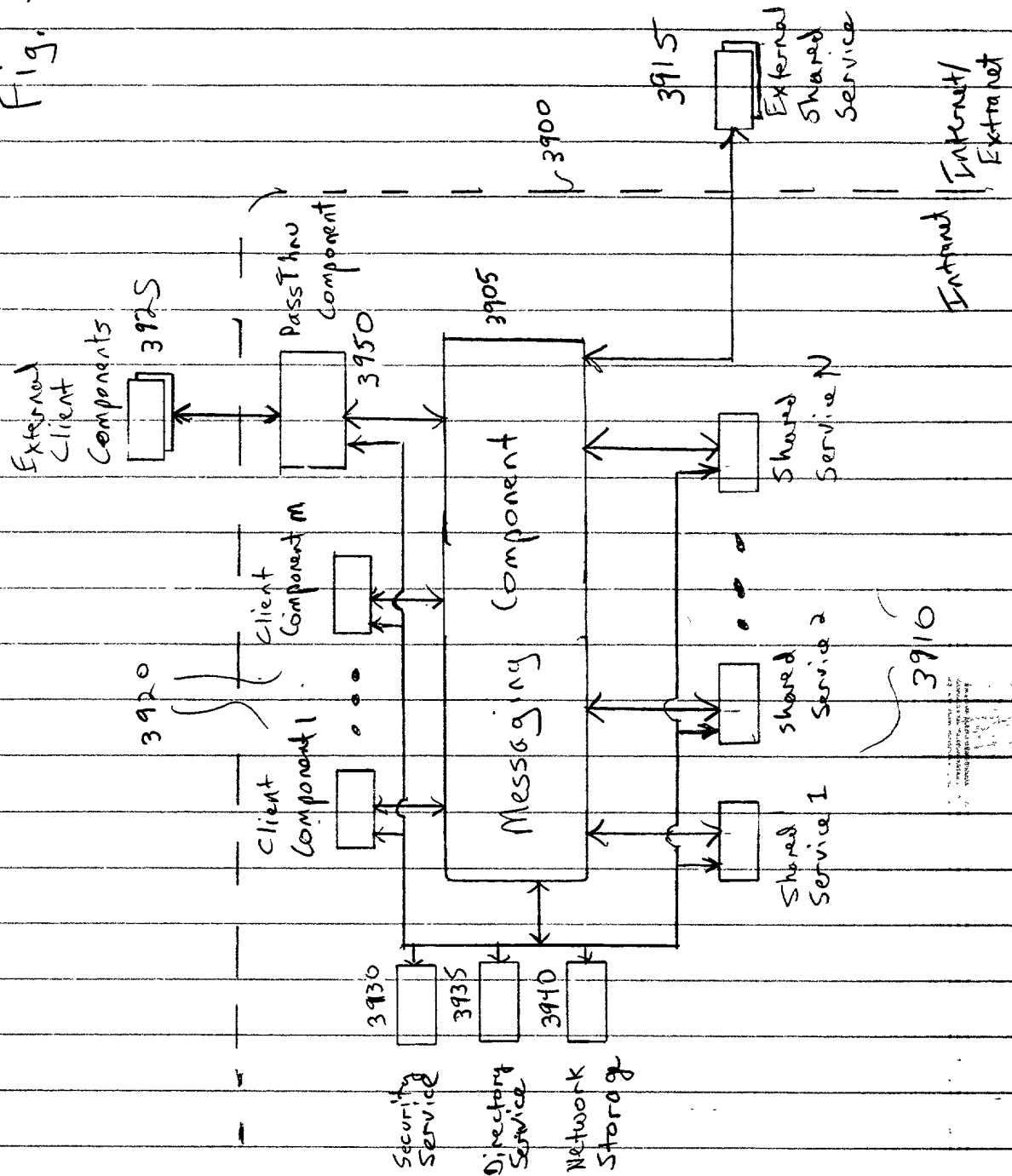


Fig. 40

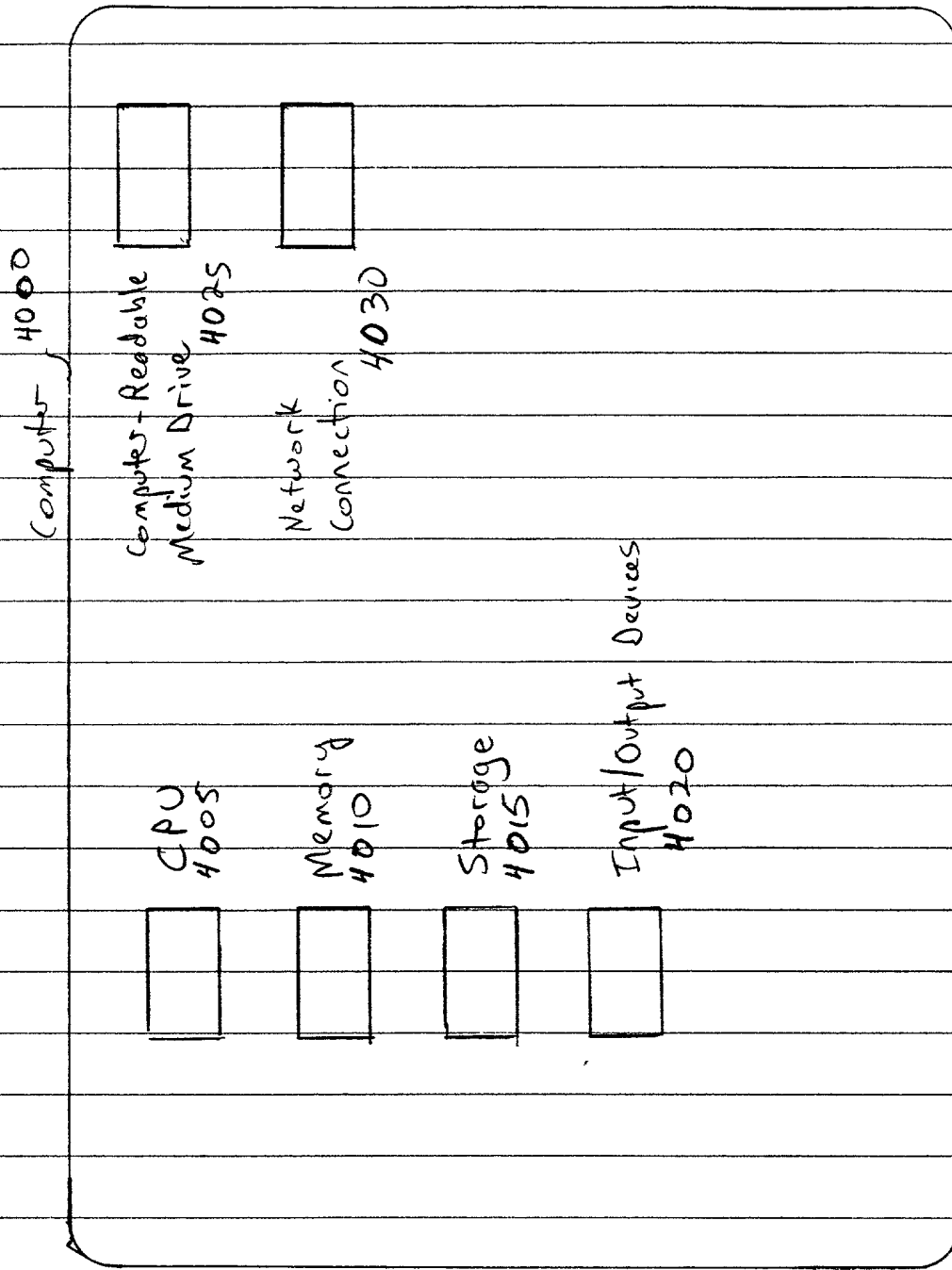
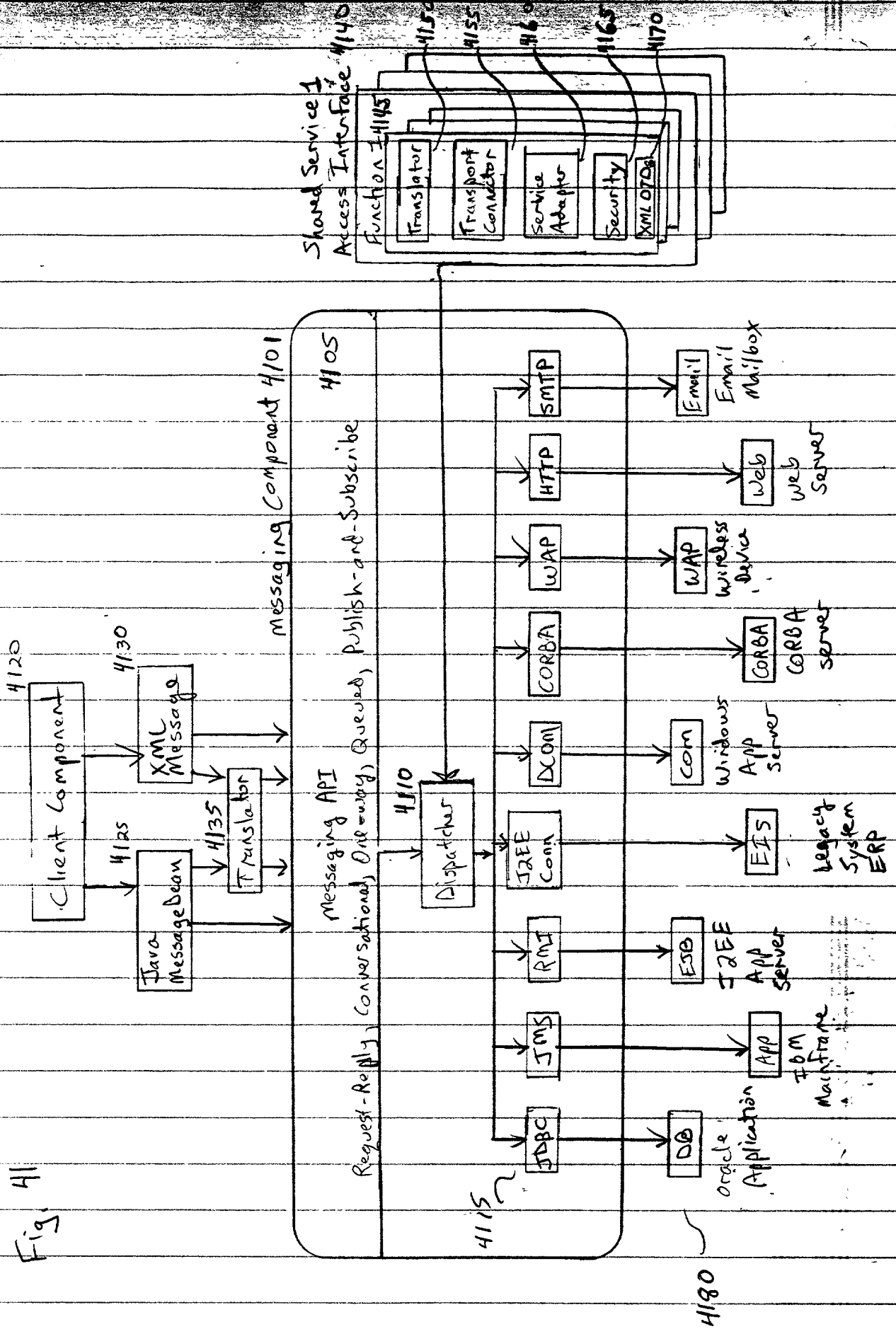


Fig. 41



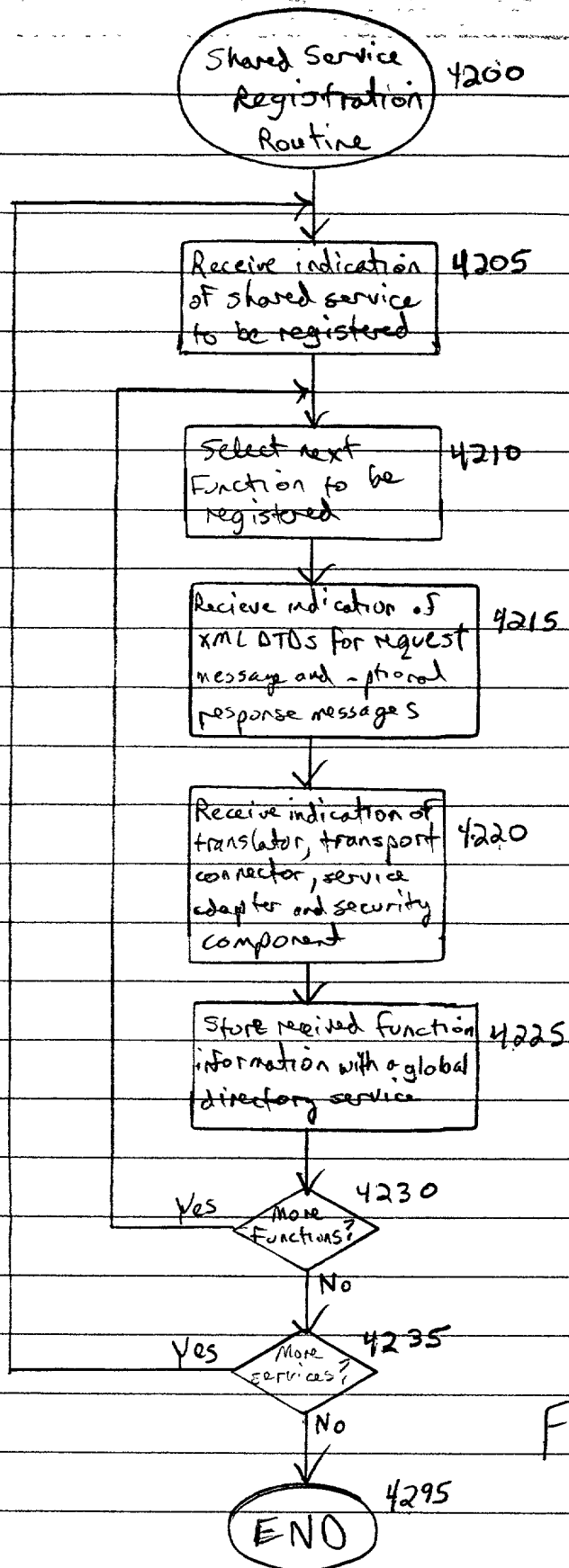


Fig. 42

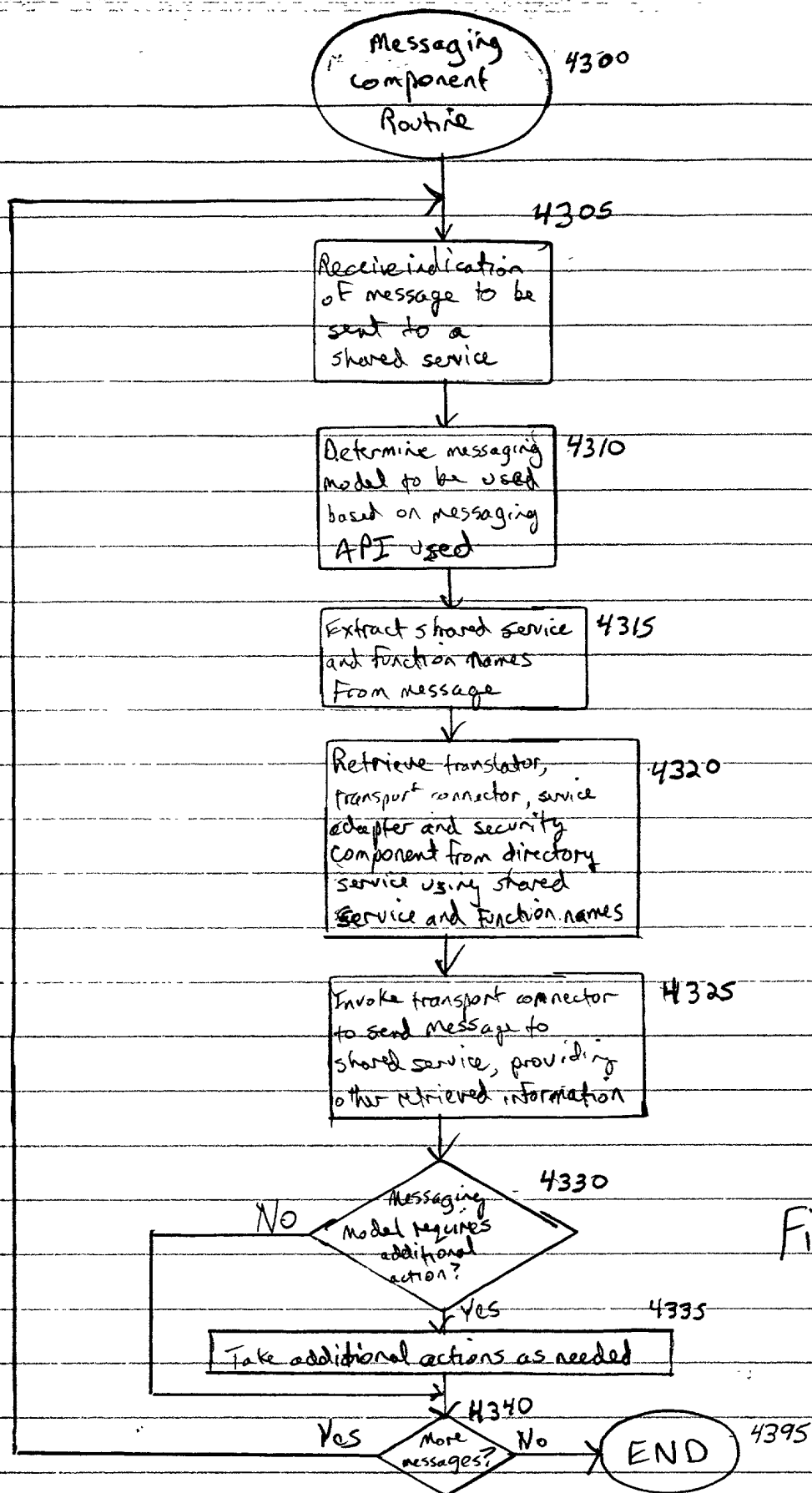


Fig. 43

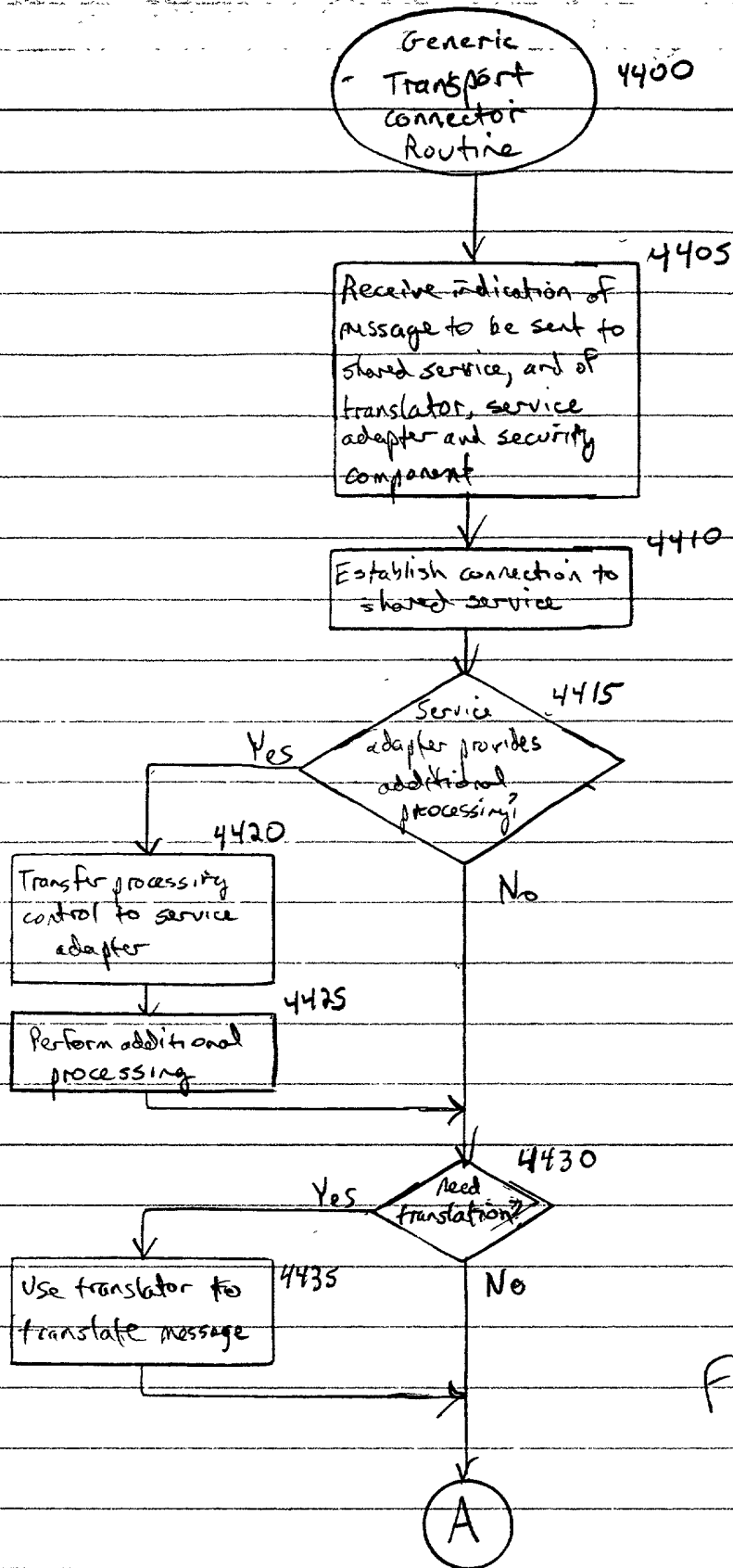


Fig. 44A

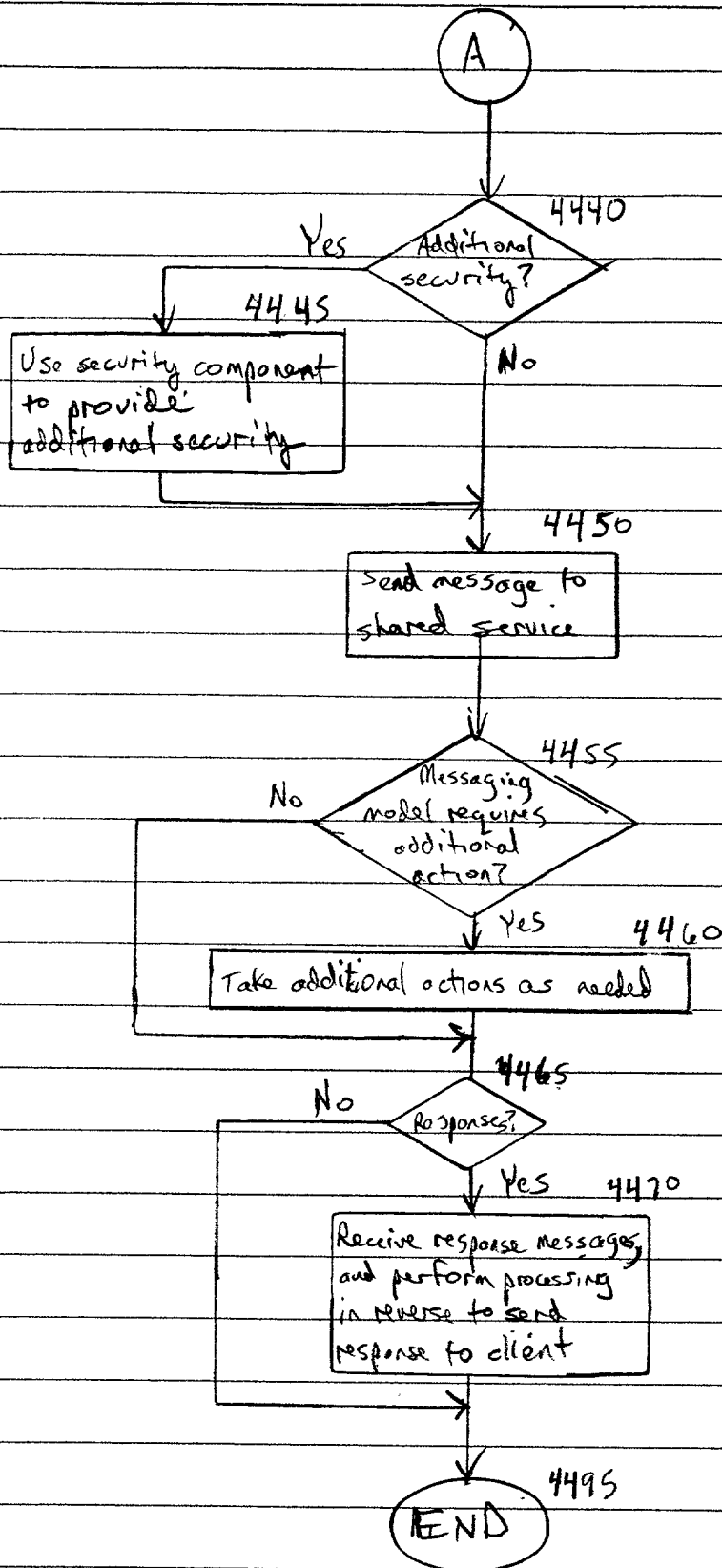


Fig. 44B

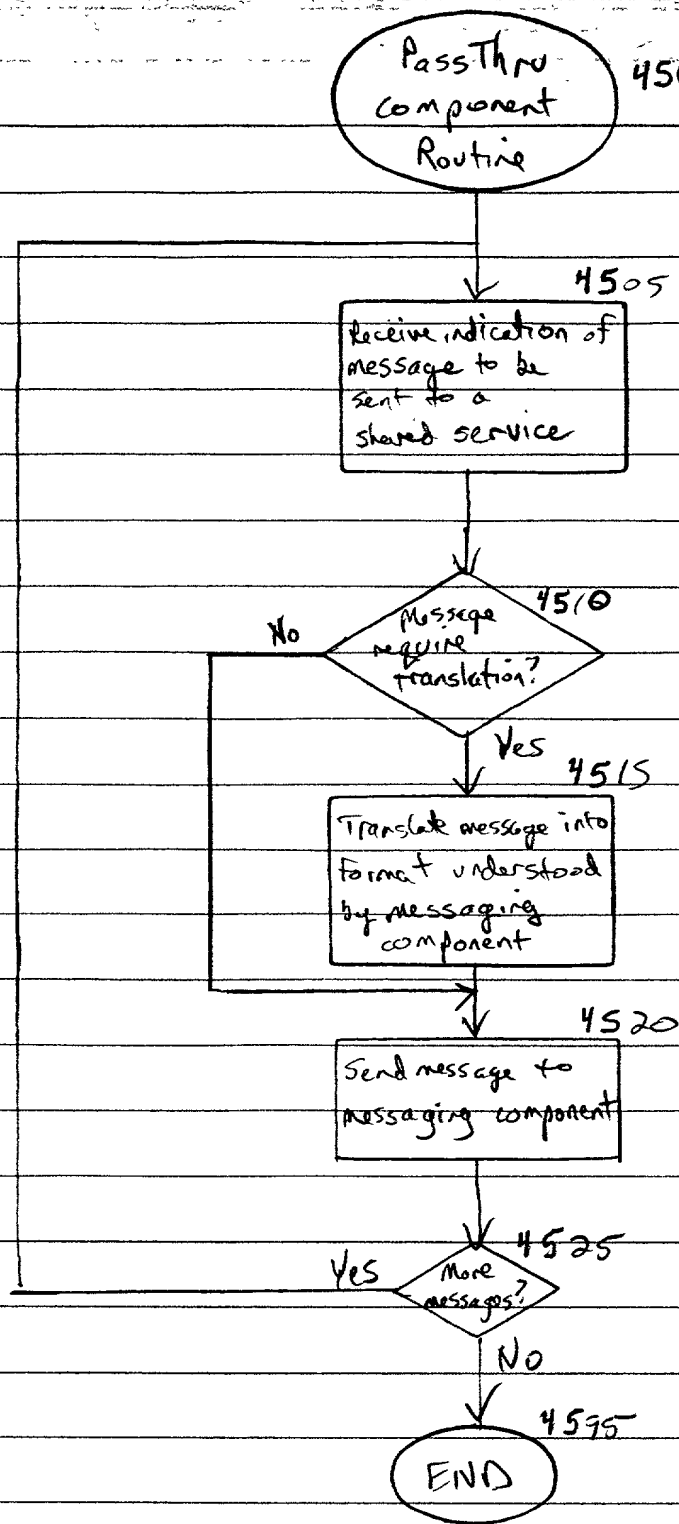


Fig. 45

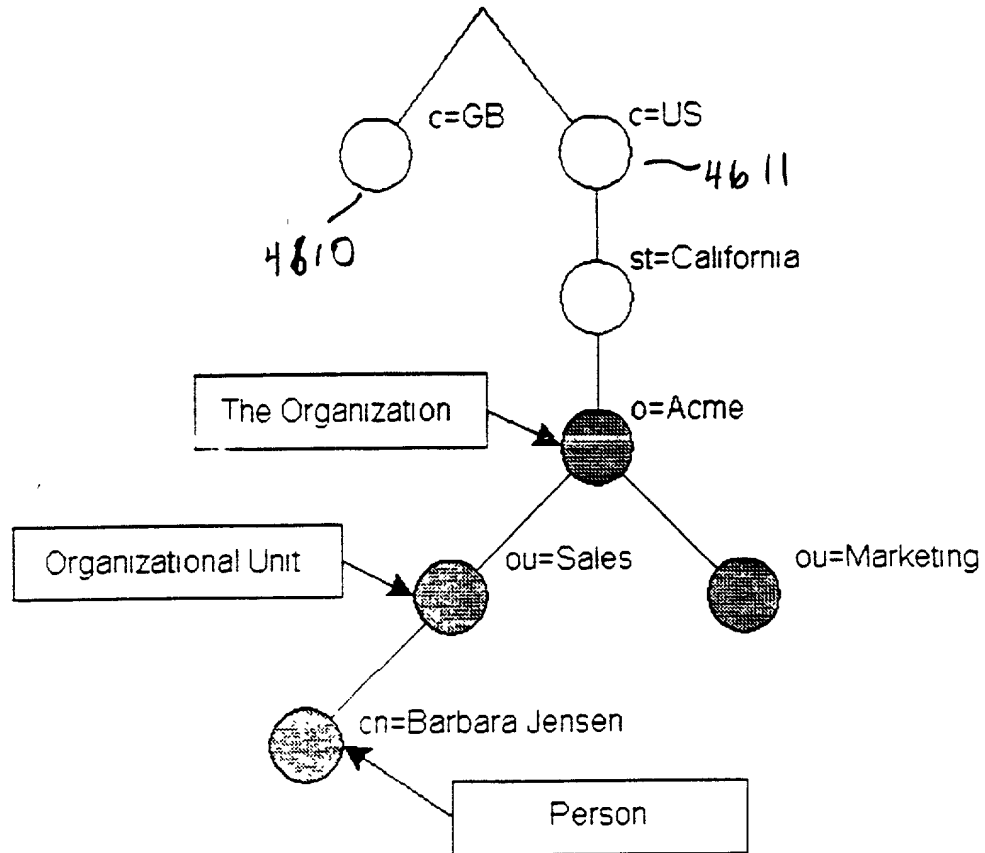
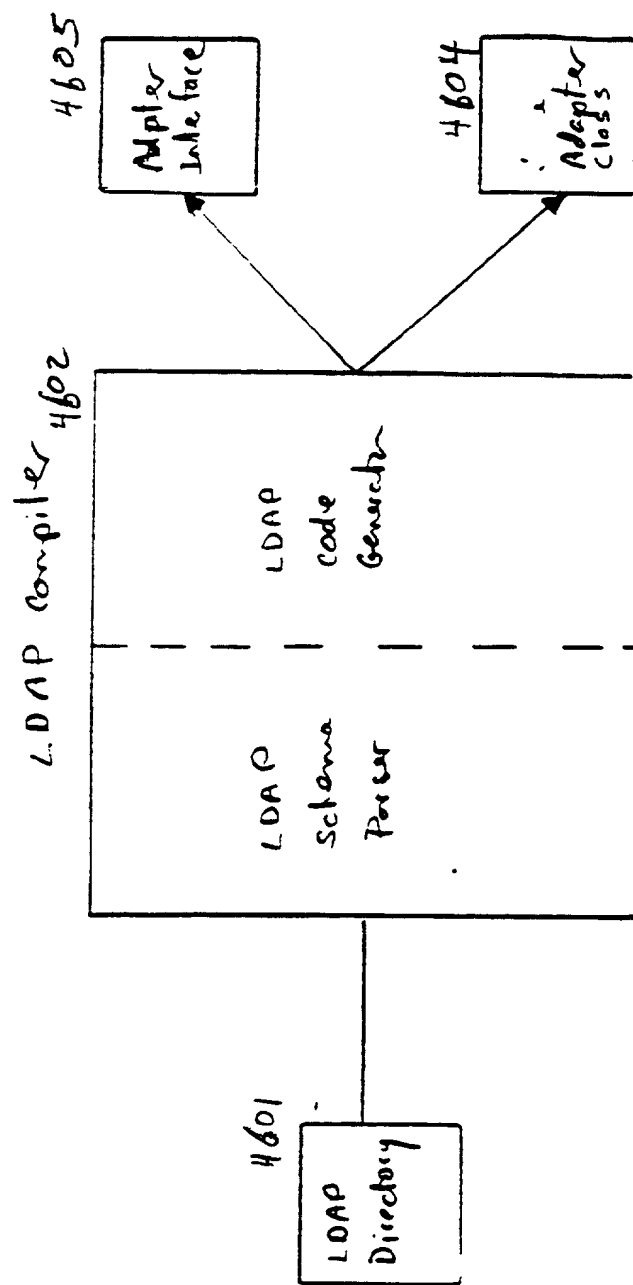


Fig. 46A



F.g. 46B

4701

LDAP schema

class1 attribute: attribute: class2 attribute: attribute: :	
attribute1 characteristic	
attributeN characteristics	

4702

4703

4704

LDAP entries

key1 class, class, ... attr value: : attr value	
key2 class, class, ... attr value attr value	
.	
.	
.	
.	

4705

4705

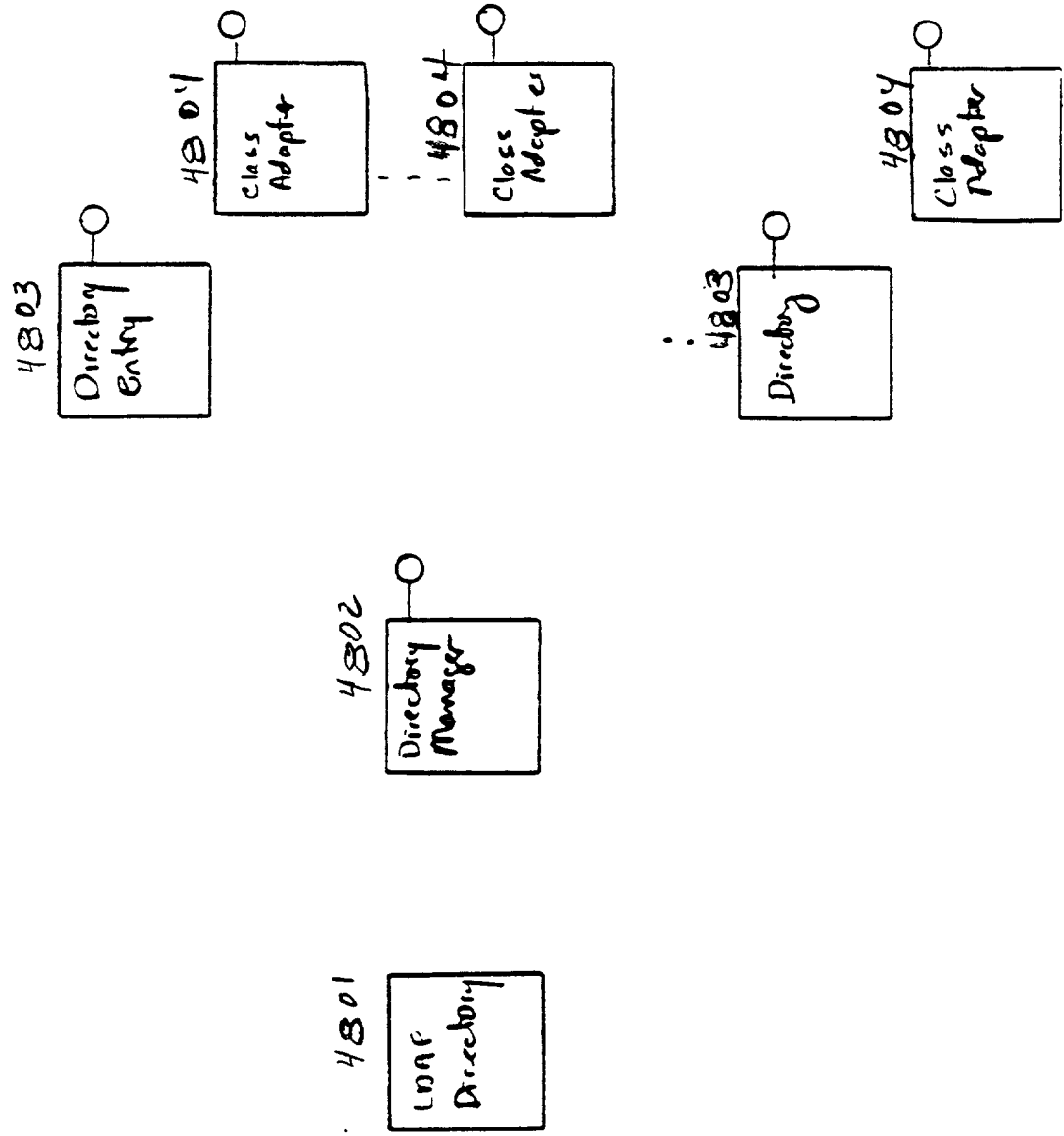


Fig. 48

4901 LDAP Directory

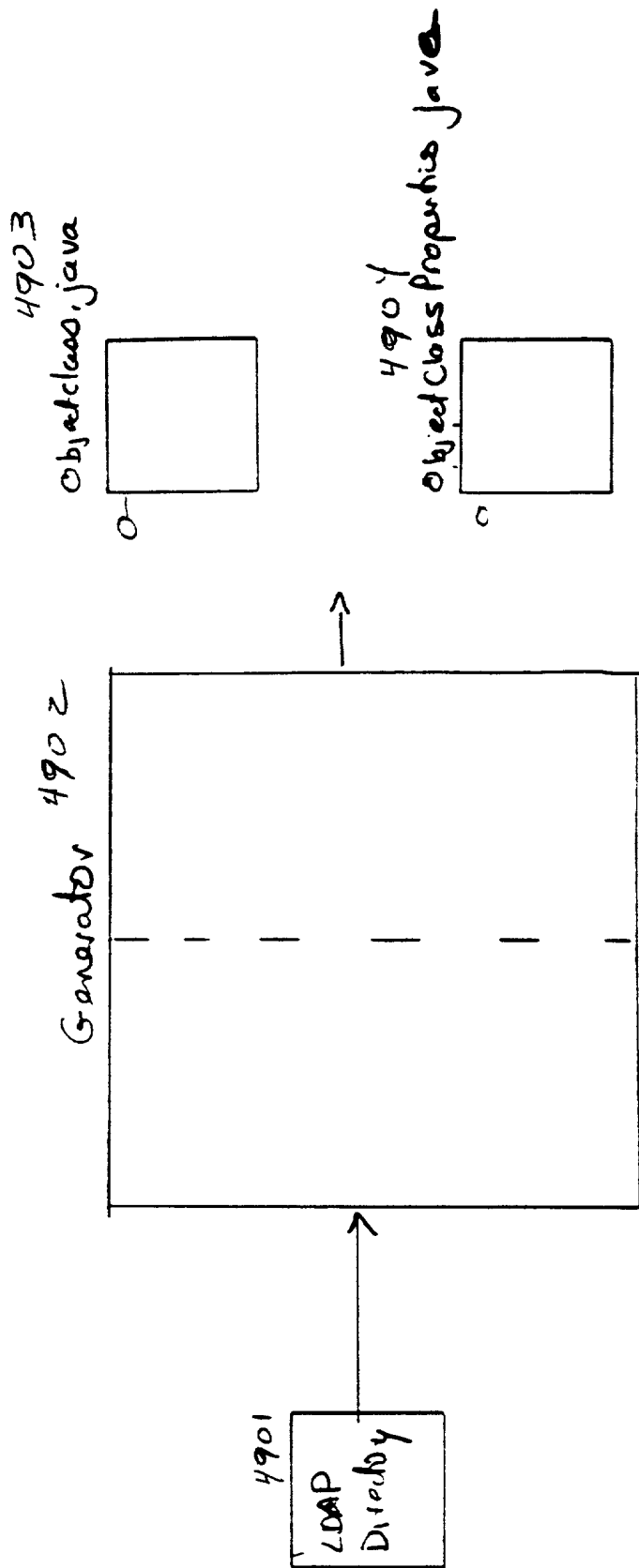
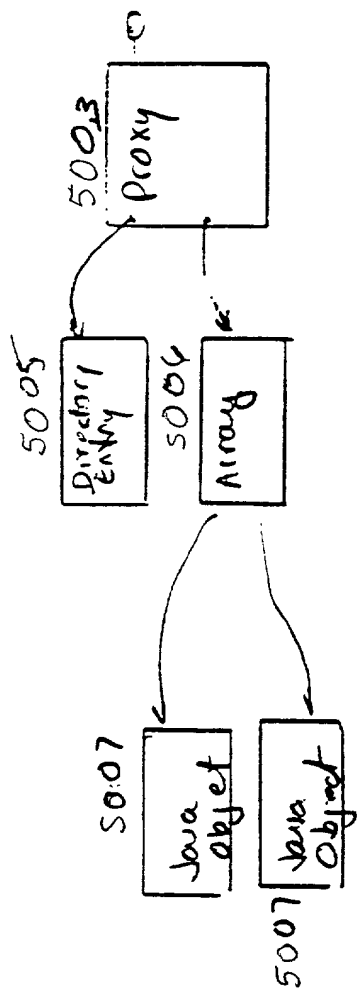


Fig. 49



...

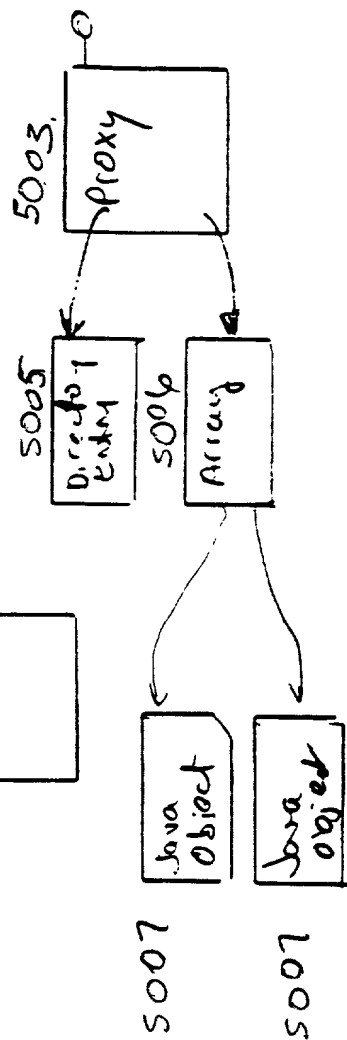
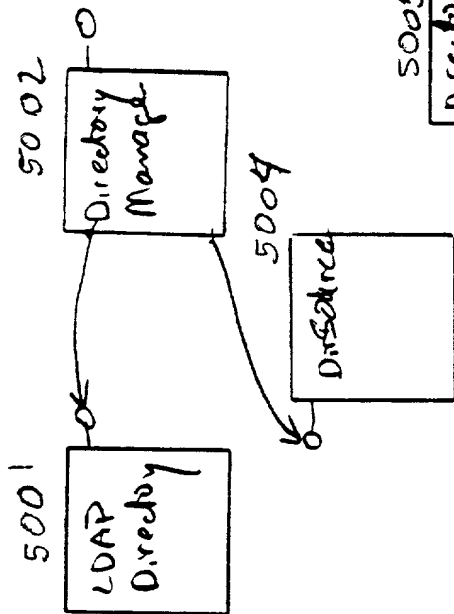
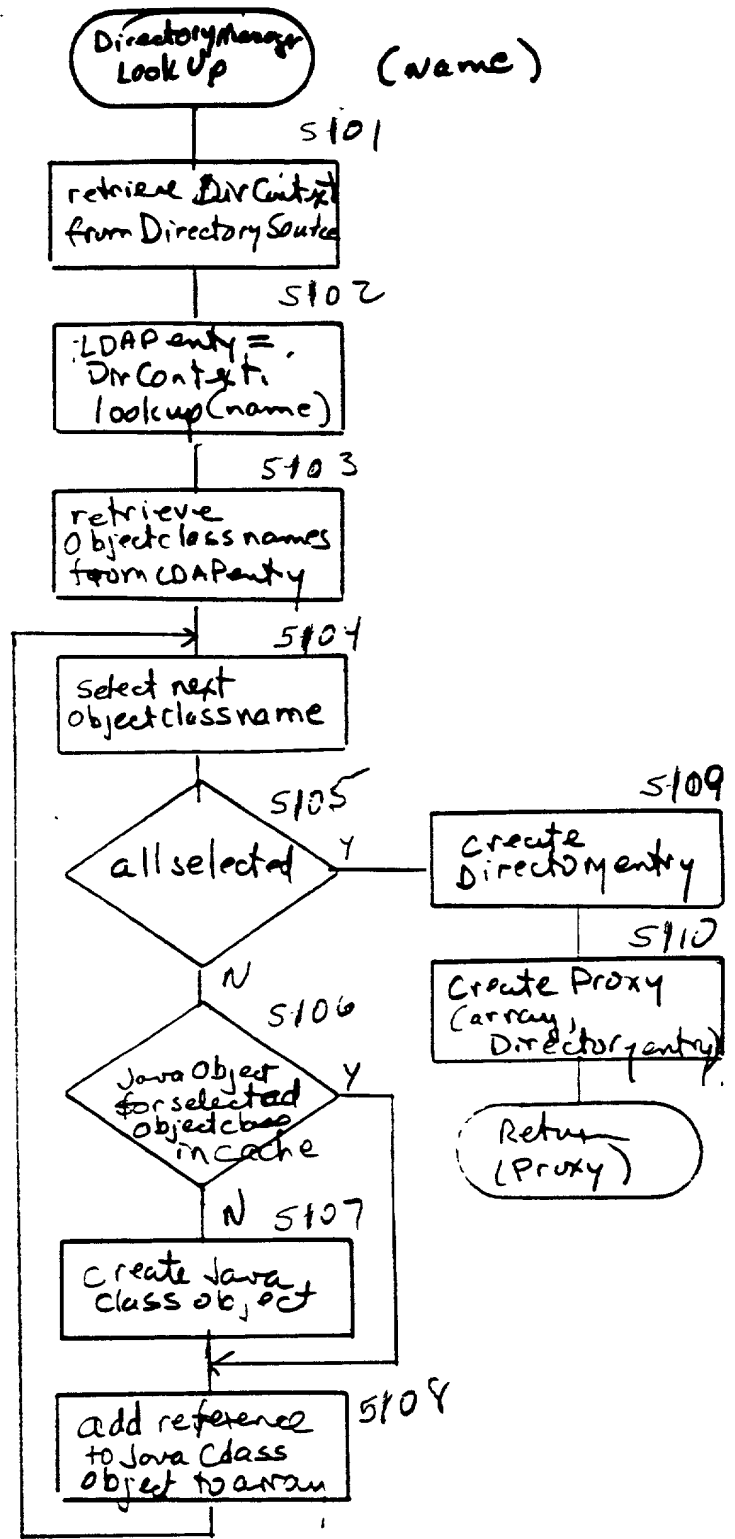


Fig. 50



F. g. 51

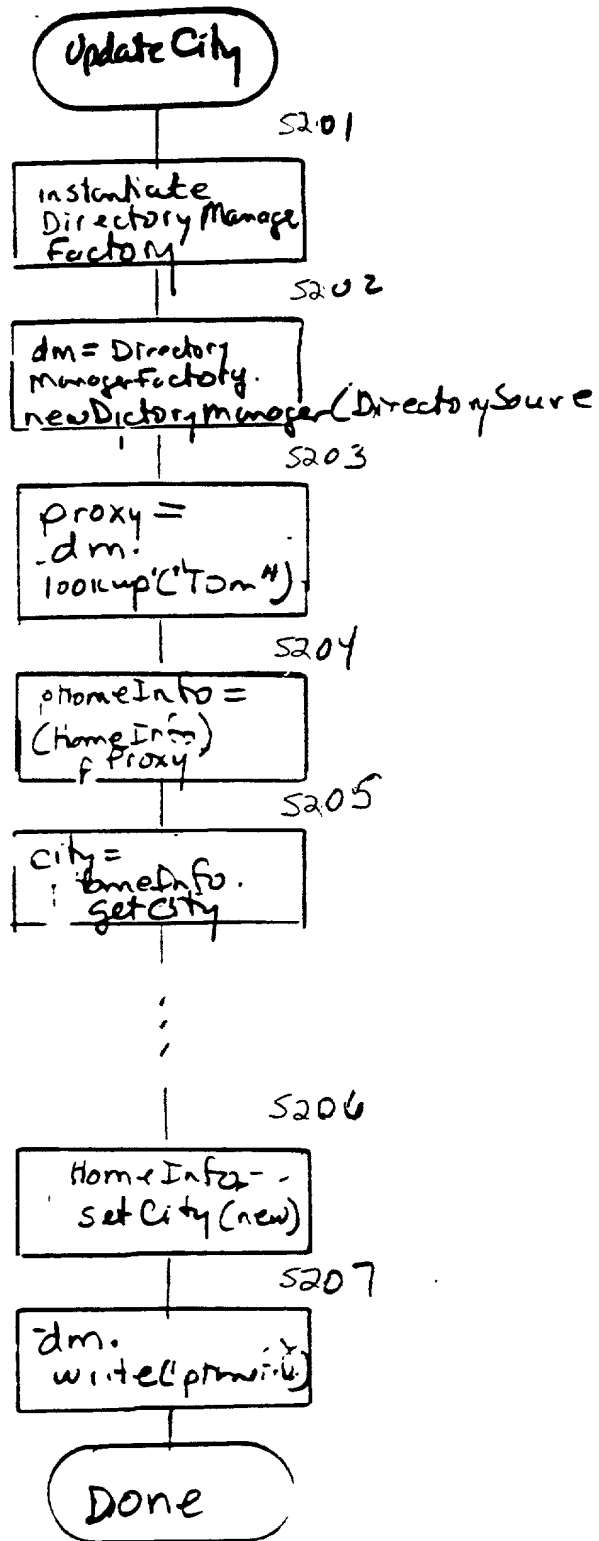


Fig. 52

(HomeInfo)
Proxy:
getCity

5301

retrieve
reference to
DirEntry

5302

DirEntry.Invoke
("setCity", arg)

5303

city = arg

Return

Fig. 53